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THE

THEORY, PRACTICE, AND ARCHITECTURE

OF

BRIDGES

OF STONE, IRON, TIMBER, AND WIRE;

WITH

EXAMPLES ON THE PRINCIPLE OF SUSPENSION:

ILLUSTRATED BY

One Hundred and Thirty-eight Engravings

AND NINETY-TWO WOODCUTS.

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VOL. III.

RE-ISSUE, WITH SOME EMENDATIONS.

FACED BY A PORTRAIT OF

JAMES BRINDLEY, C.E.

CONTENTS OF THIS VOLUME—PLATES, NUMBERED FROM 1 TO 65.

London:
JOHN WEALE, No. 59, HIGH HOLBORN.

1855-56.

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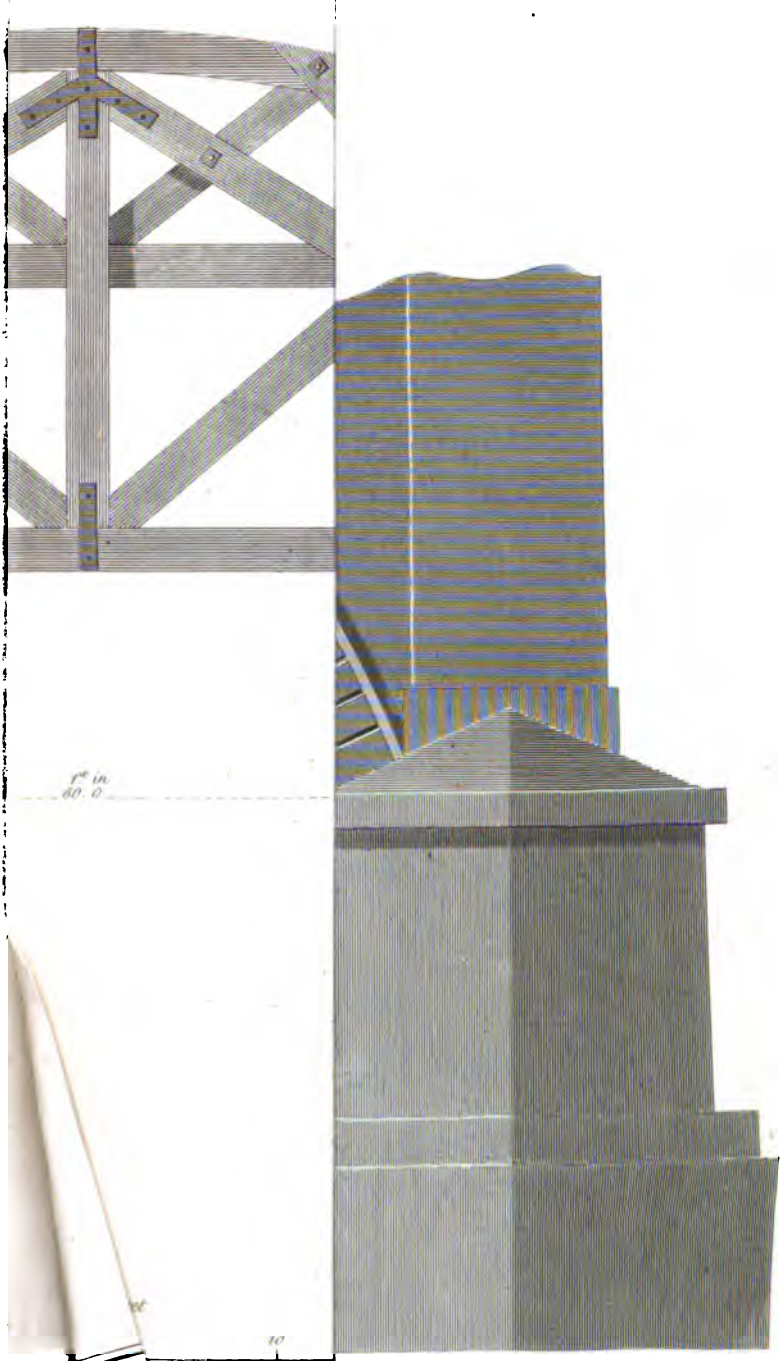
Plate 1.

GE, ACROSS RIVER



Veale. Arch. High Holborn.

S. Porter sc.

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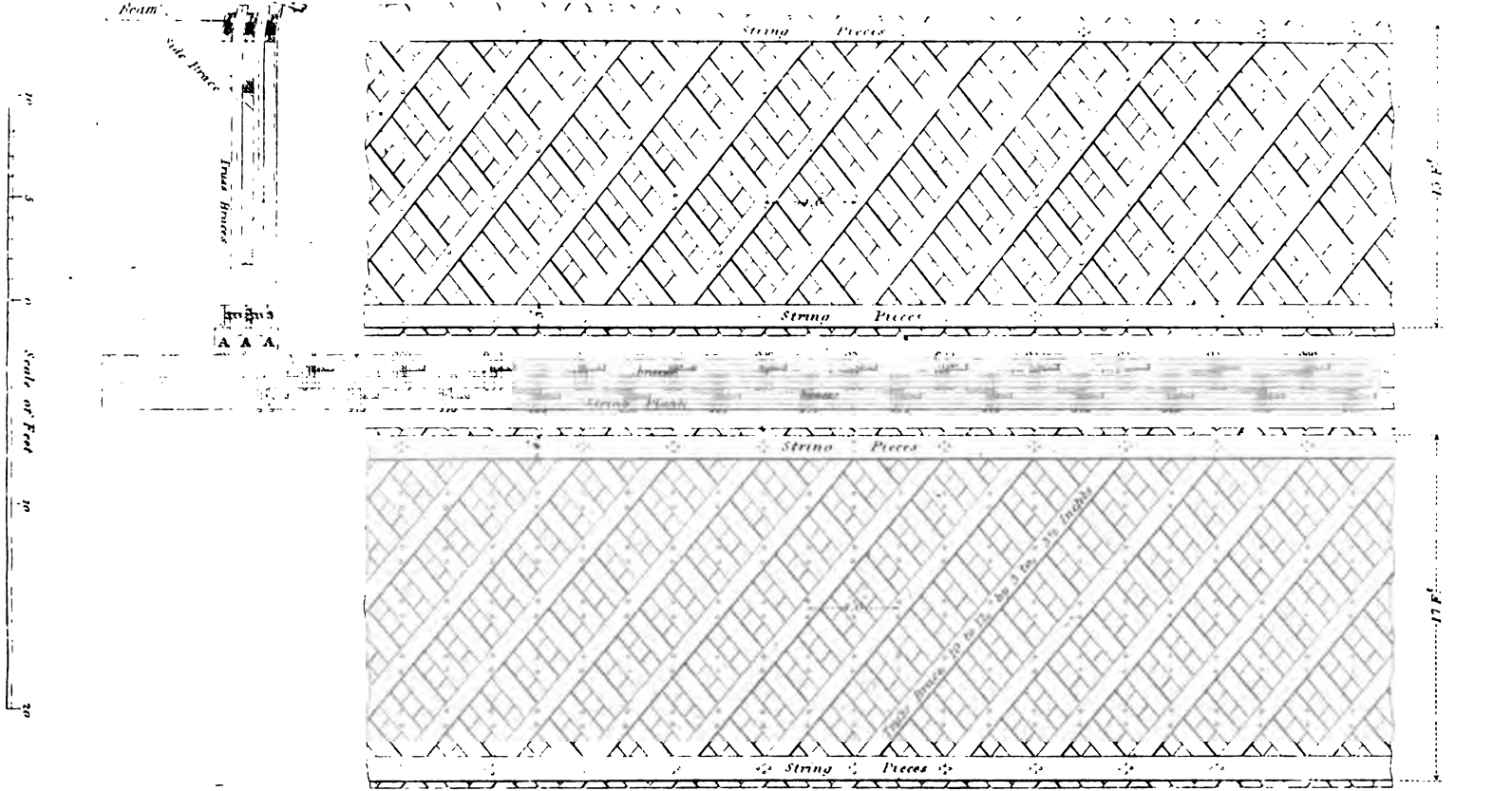

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AMERICAN TIMBER BRIDGE

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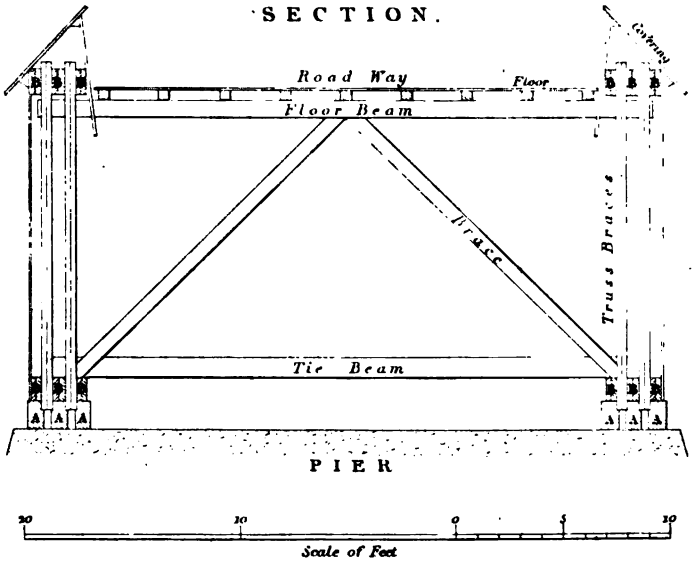

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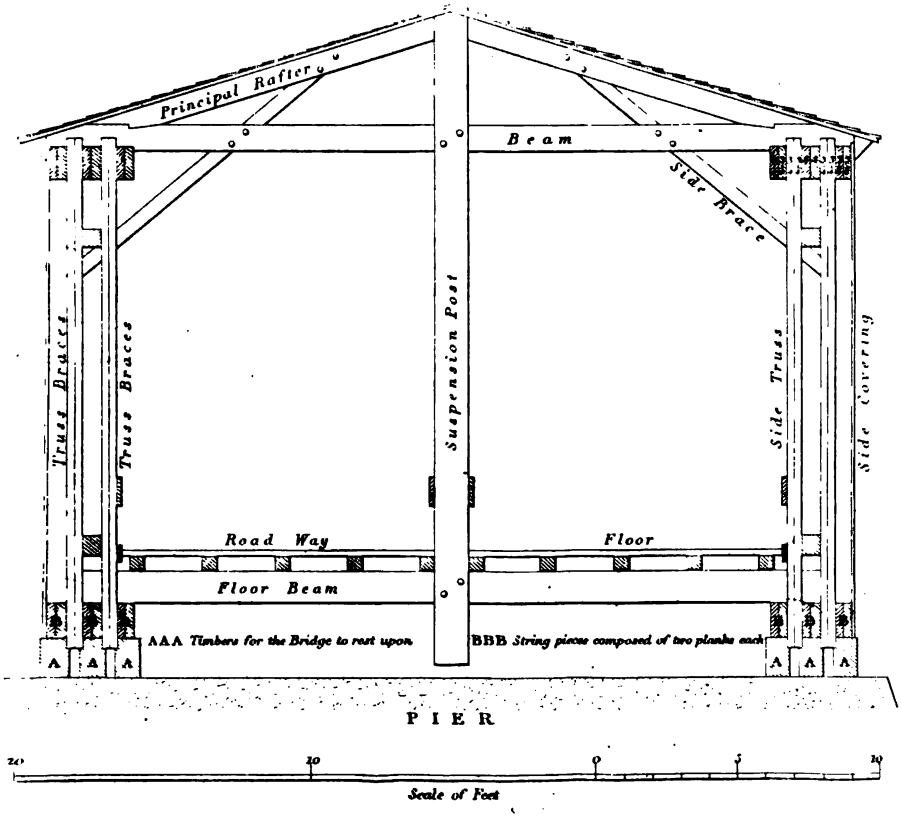

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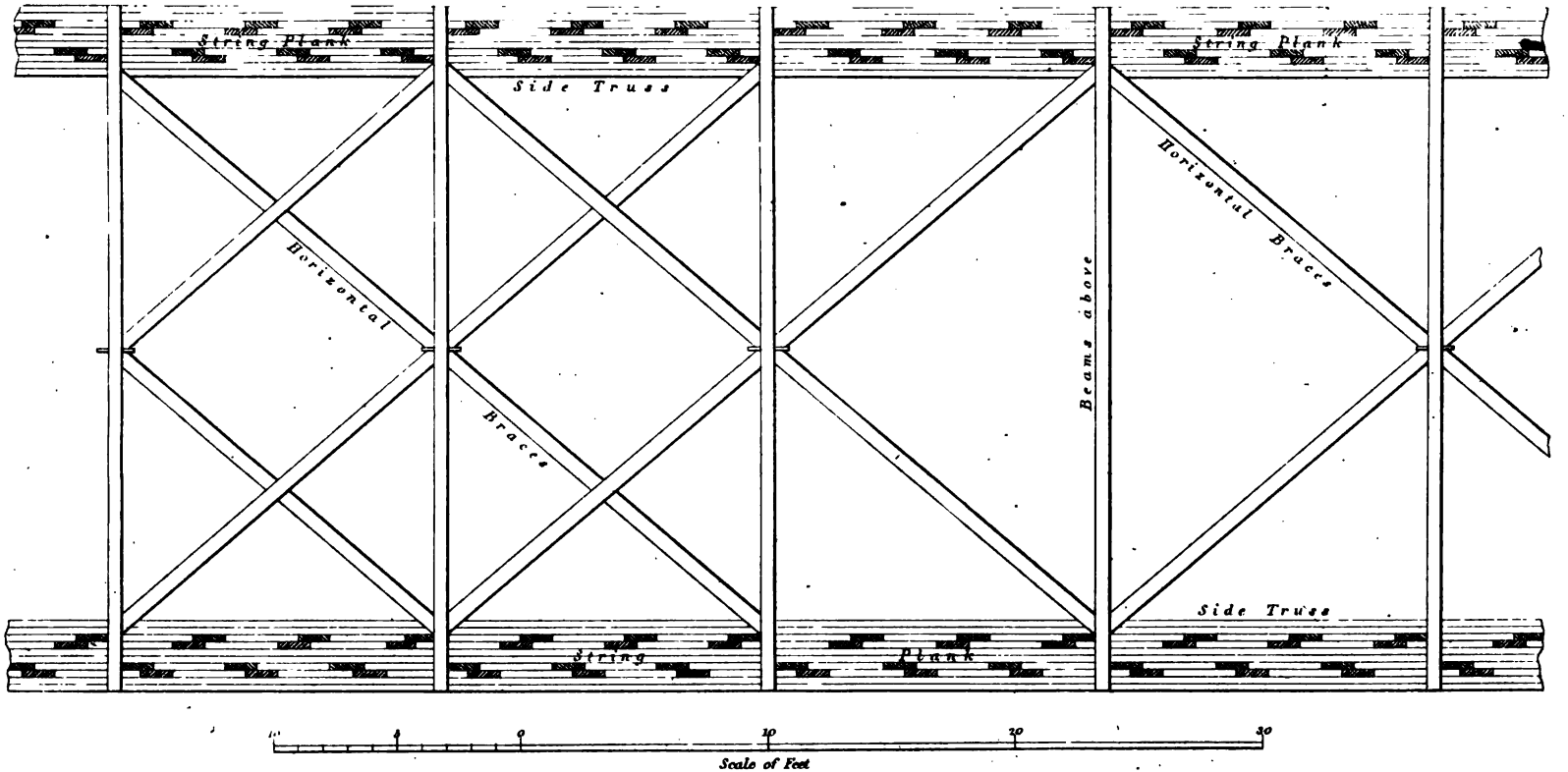

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W. J. Beever. Sc.

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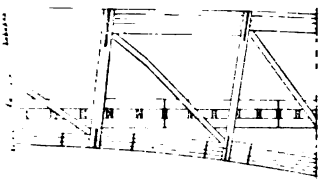

Flood Line

Water

J. Hawksworth sc

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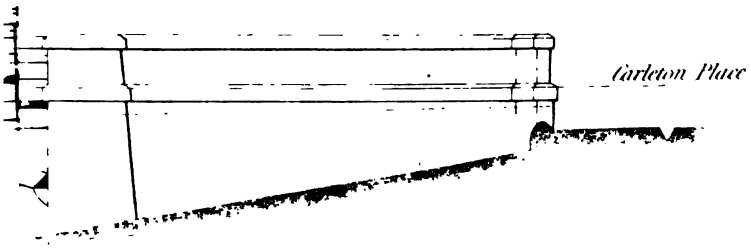
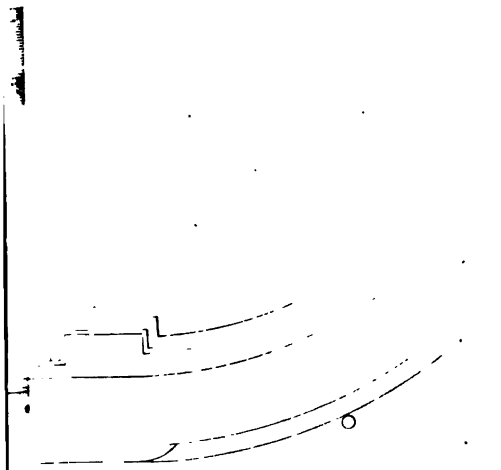
Plate 6.





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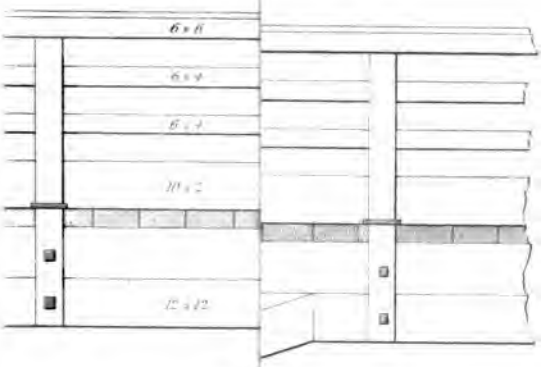

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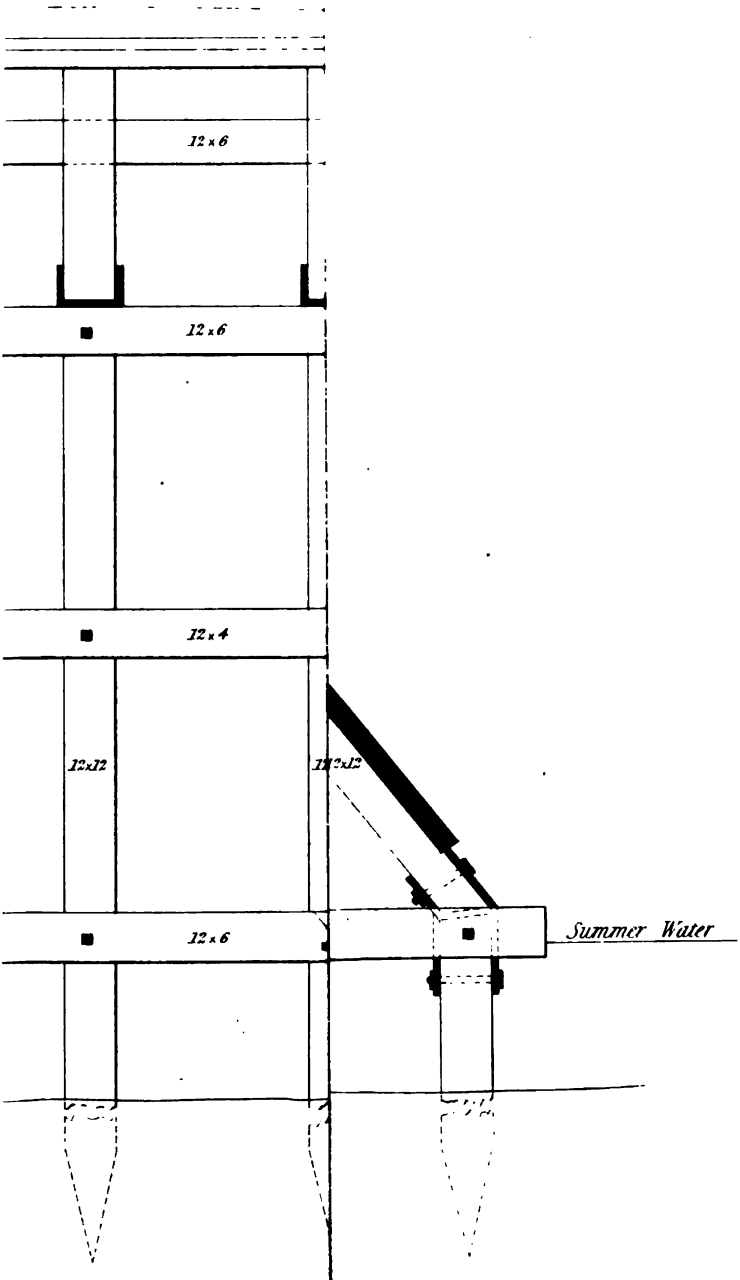

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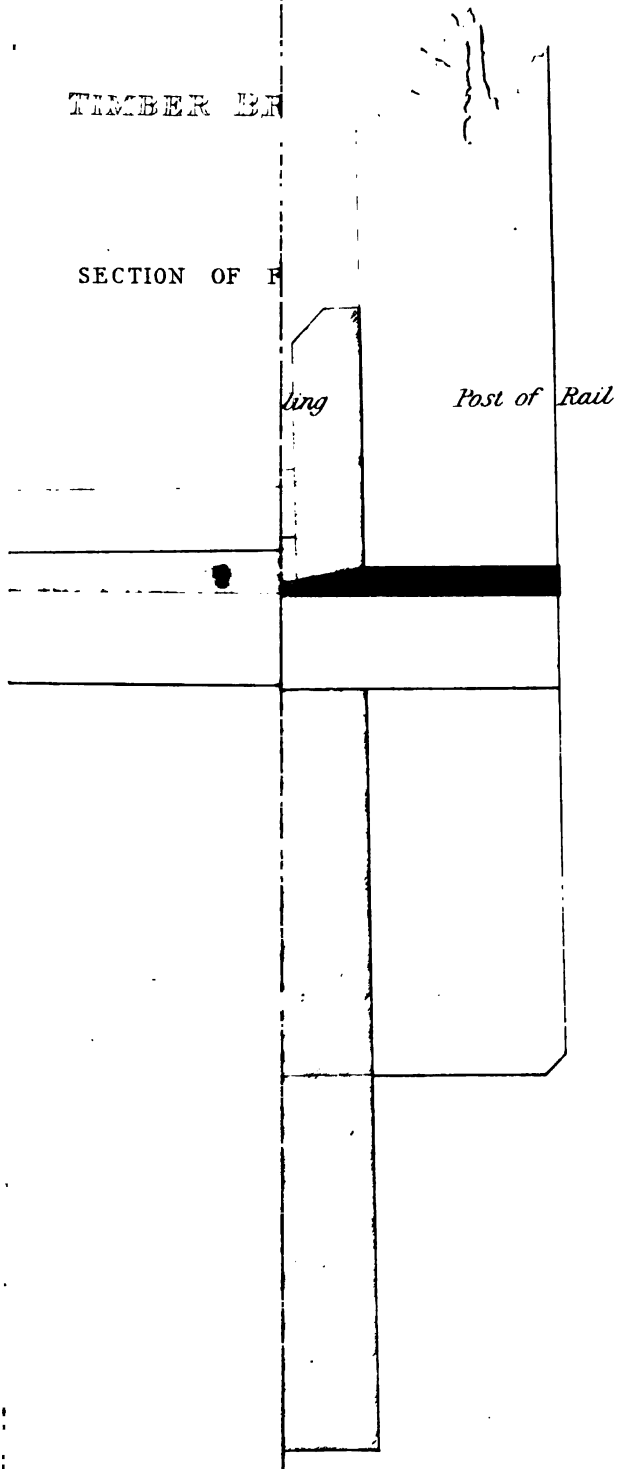

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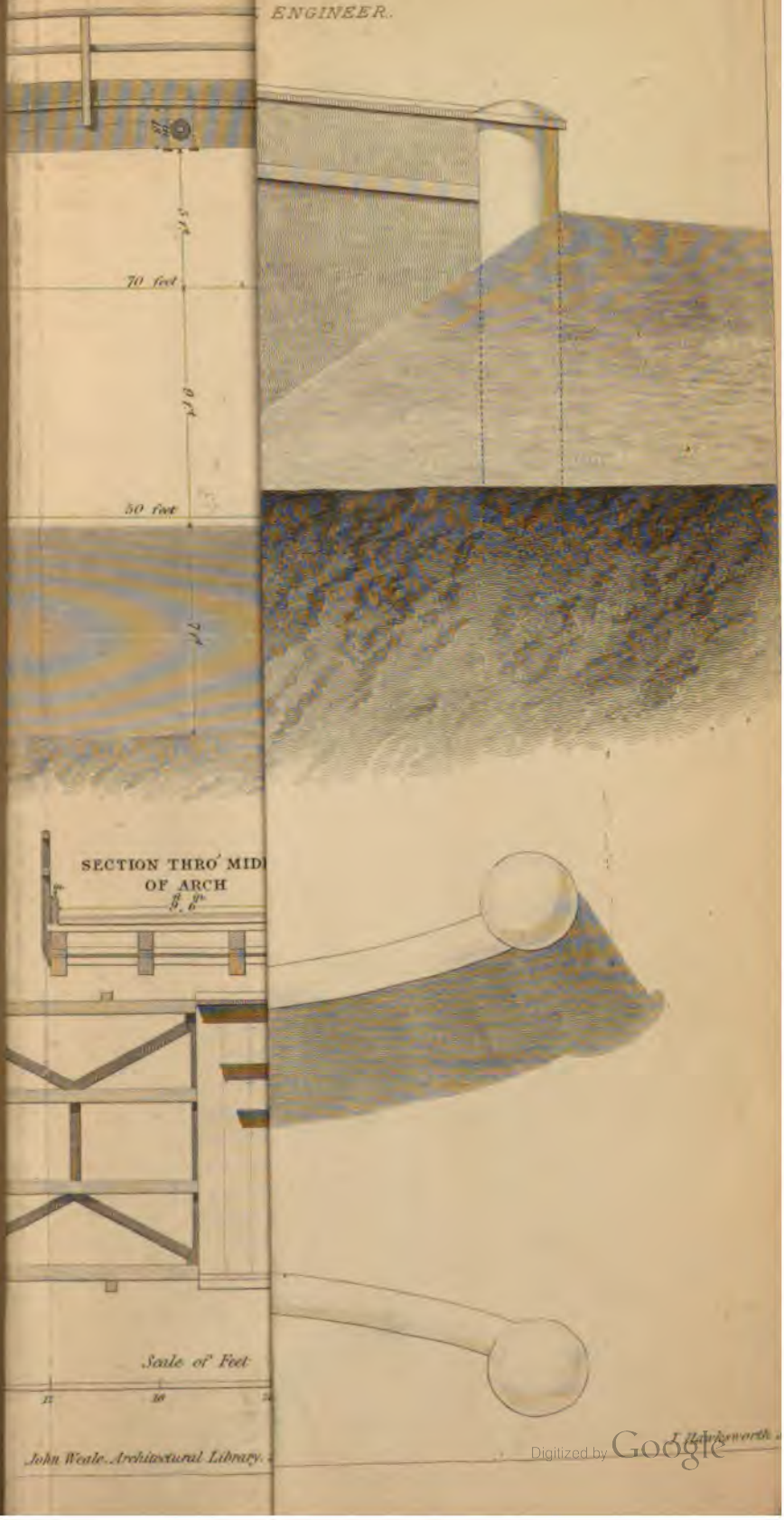

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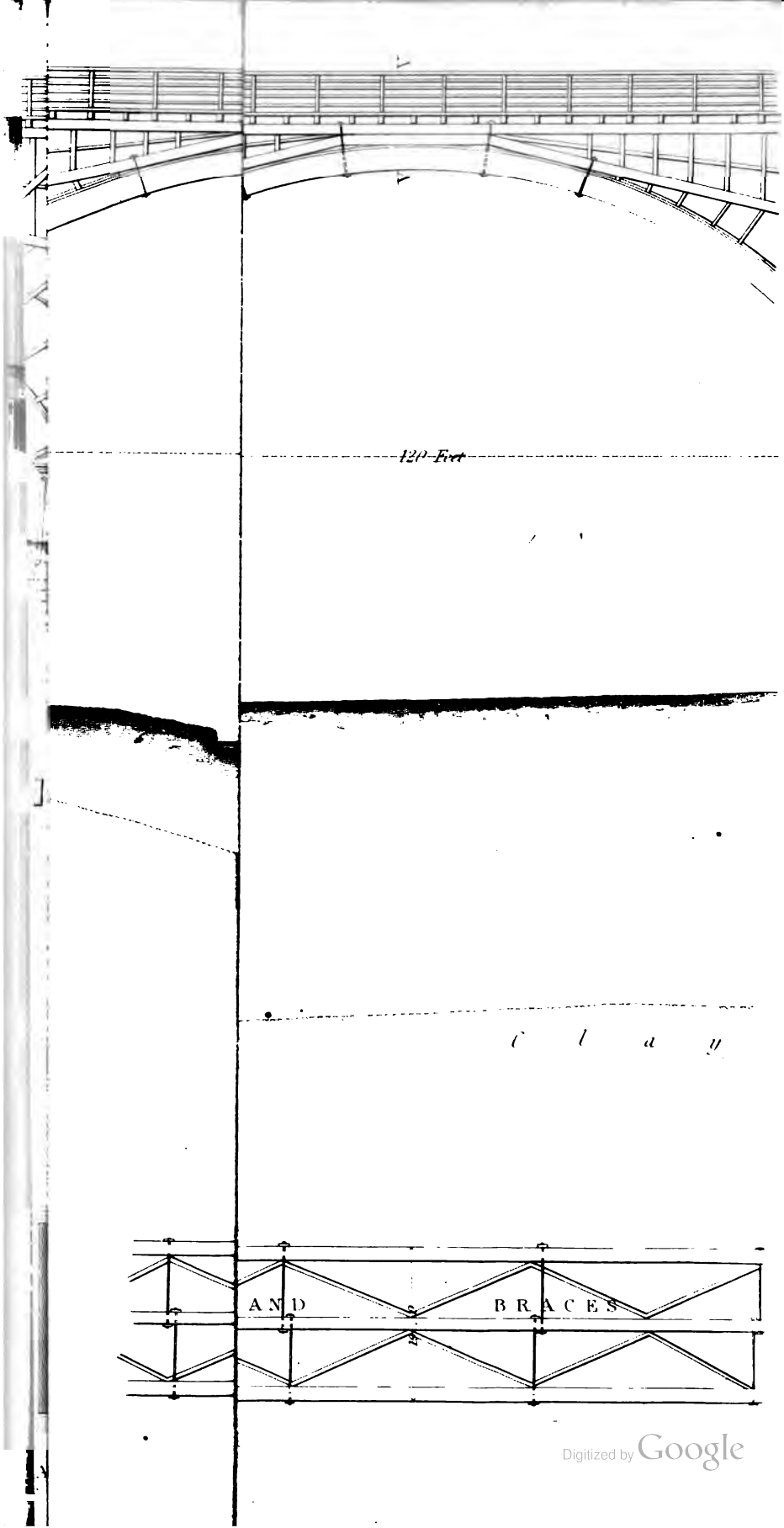

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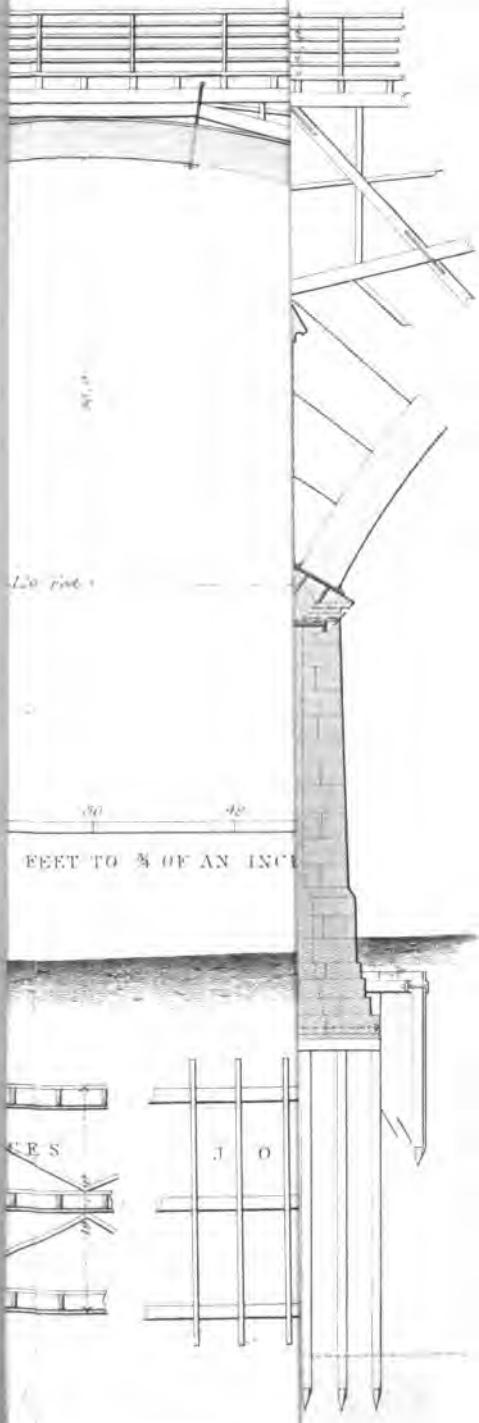

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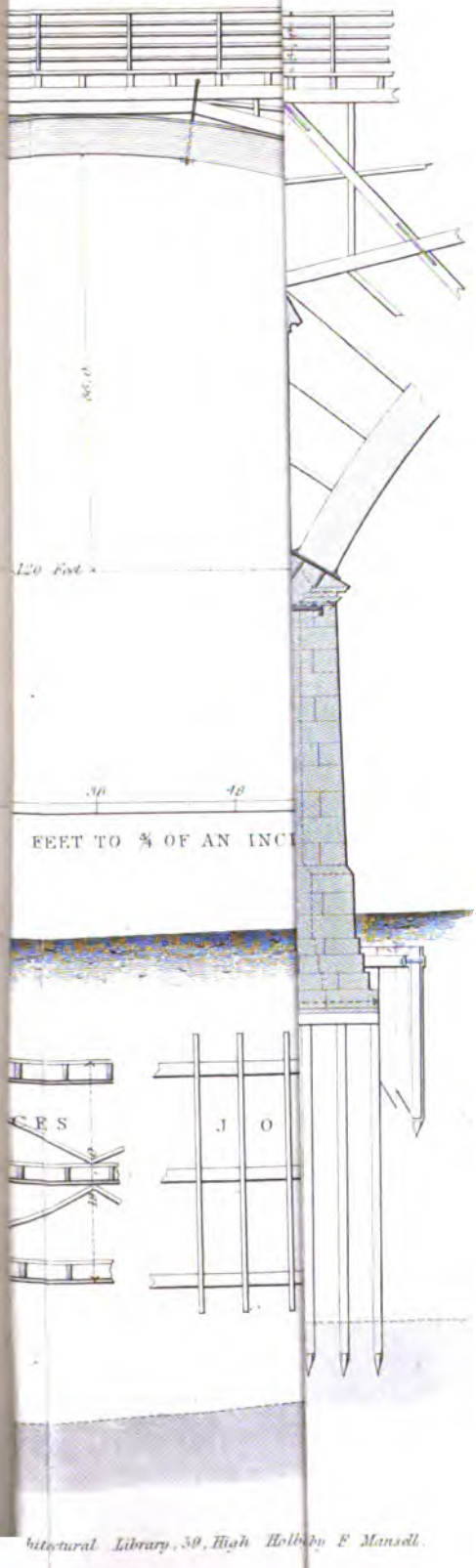

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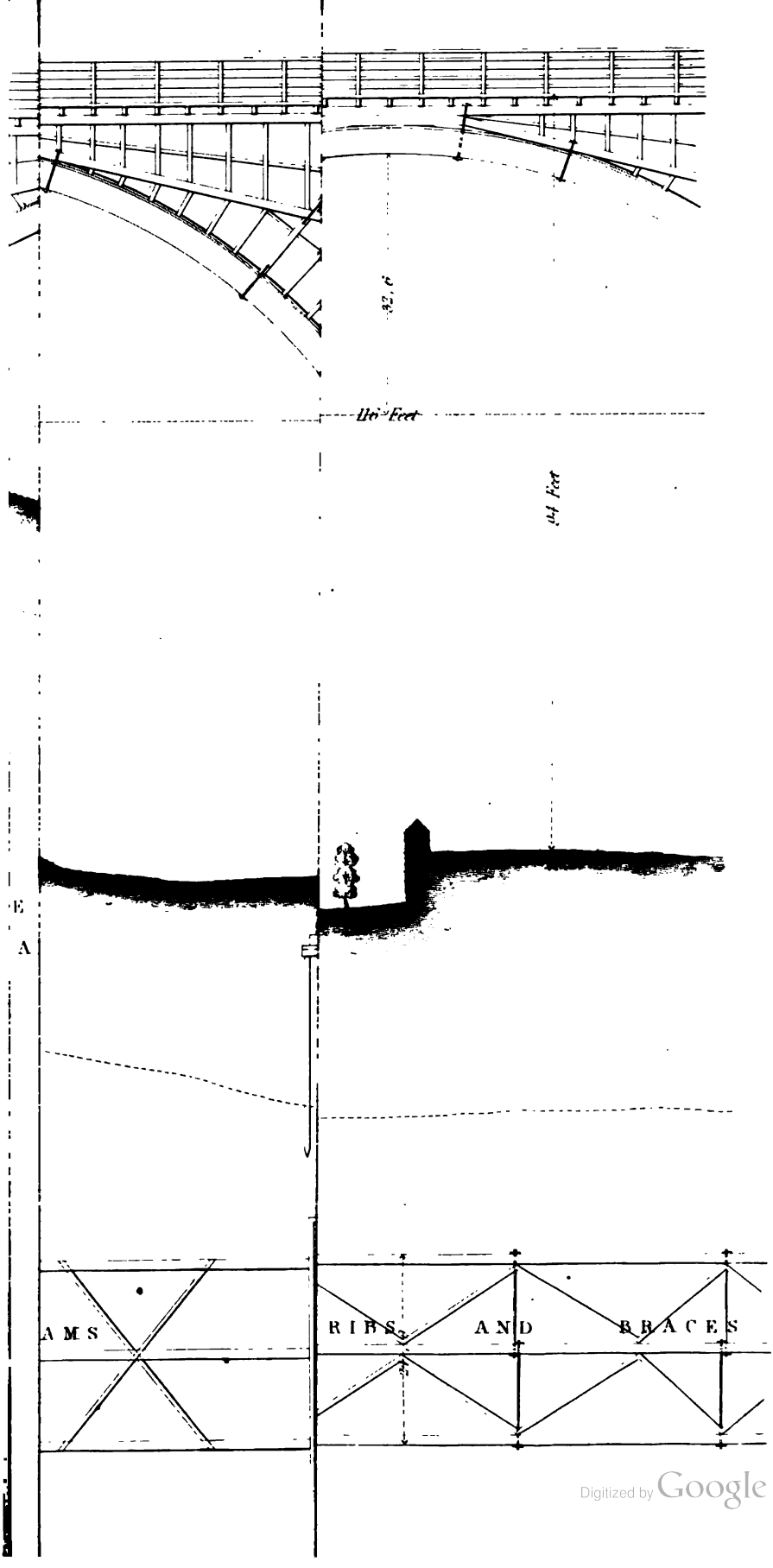

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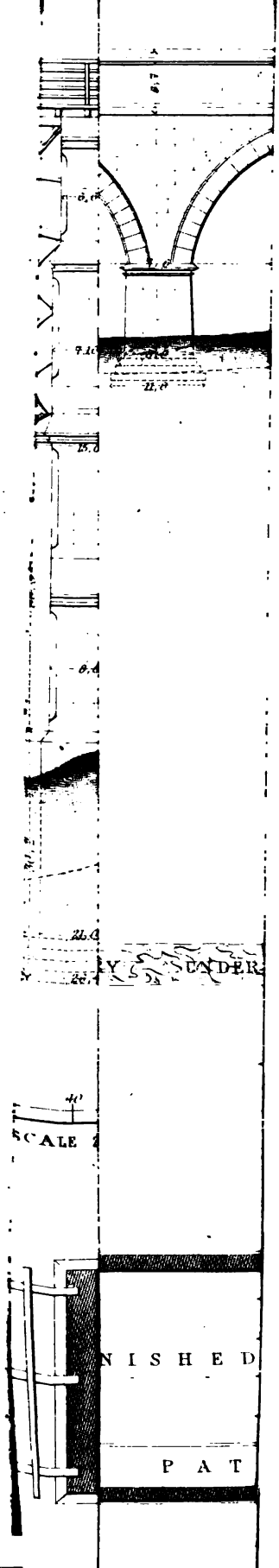

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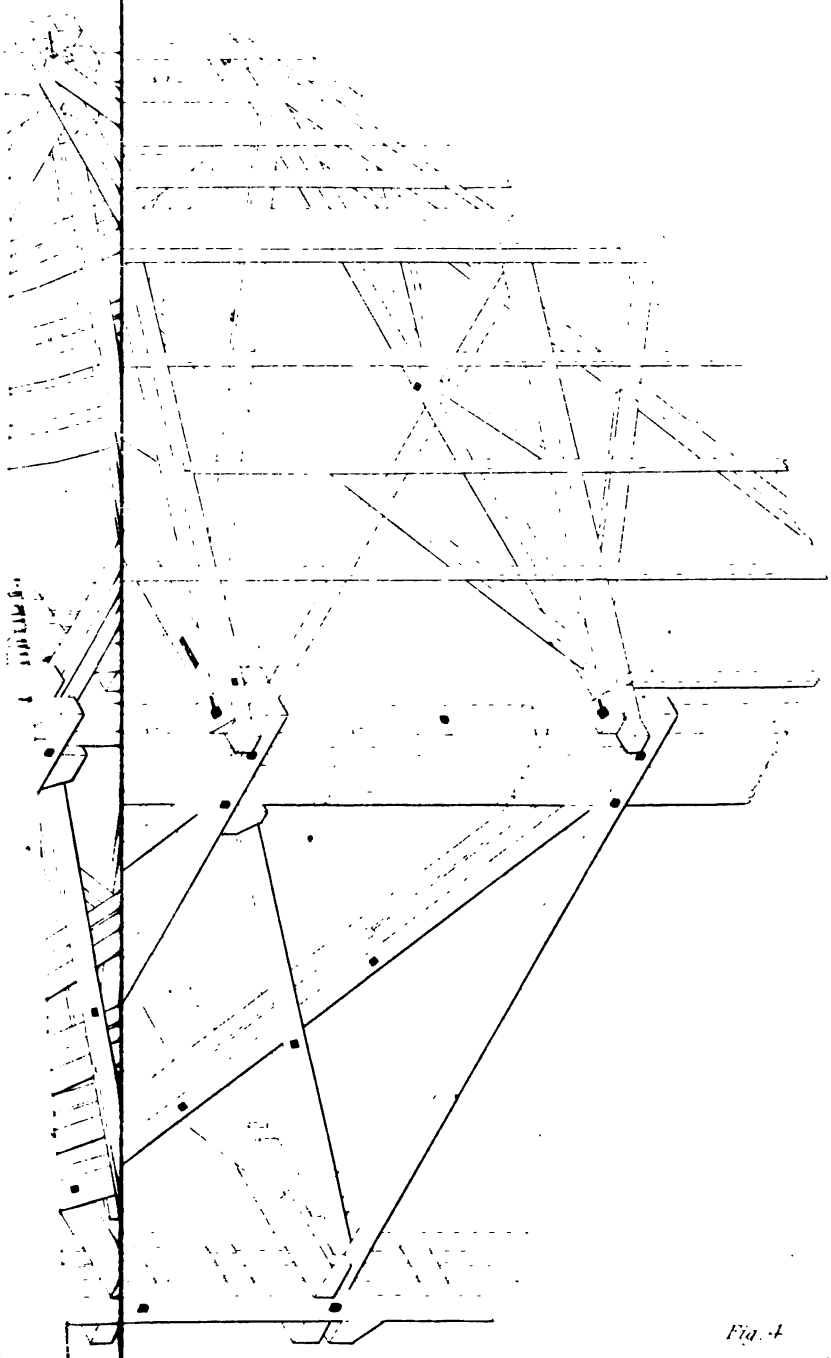

Fig. 3

Fig. 4

Fig. 5

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Fig. 9

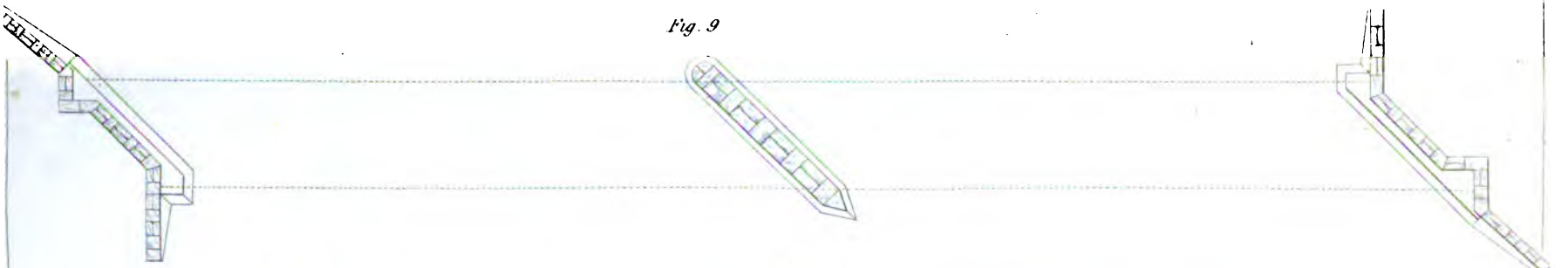

Fig. 10

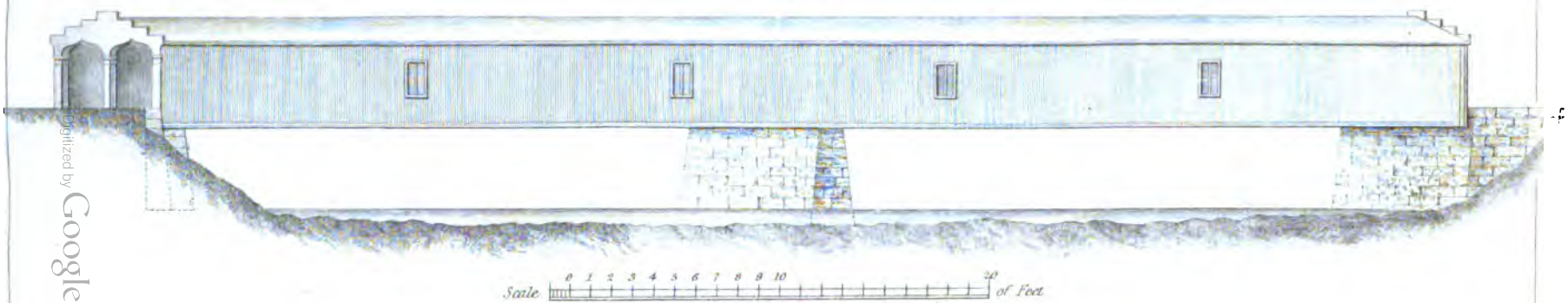

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Fig. 9

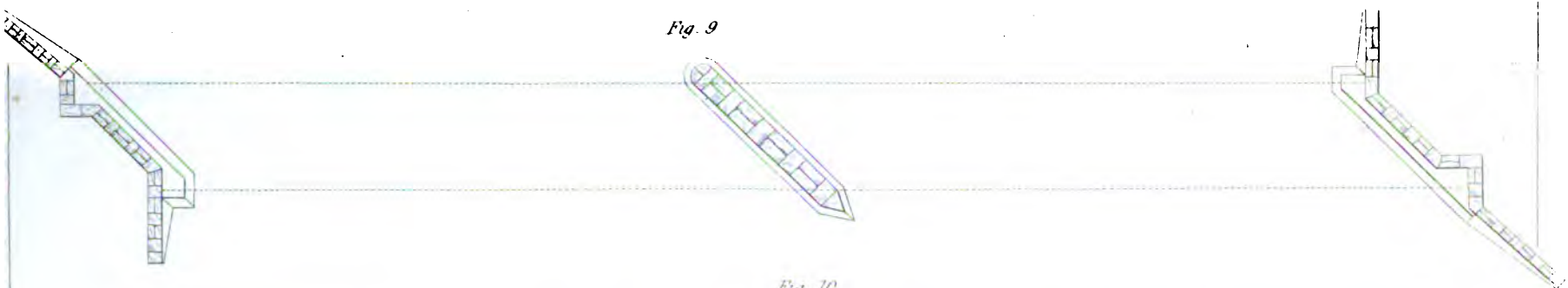

Fig. 10

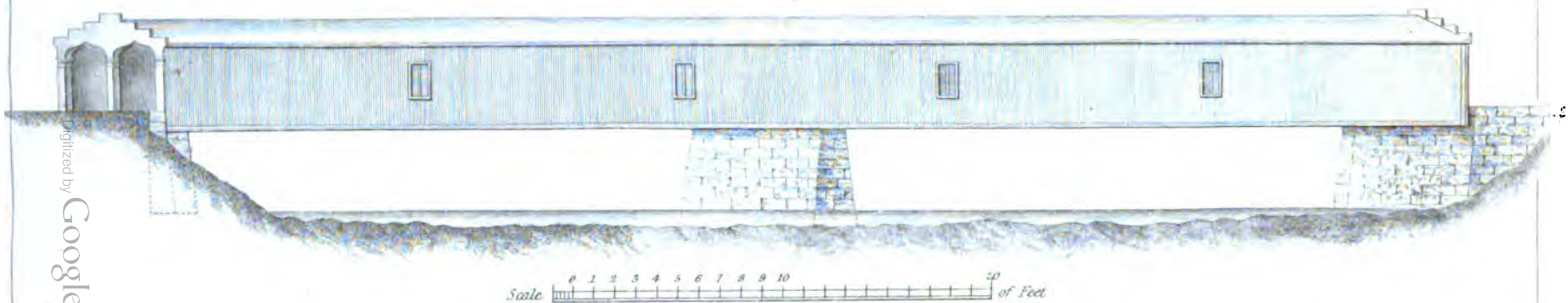

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Fig. 8

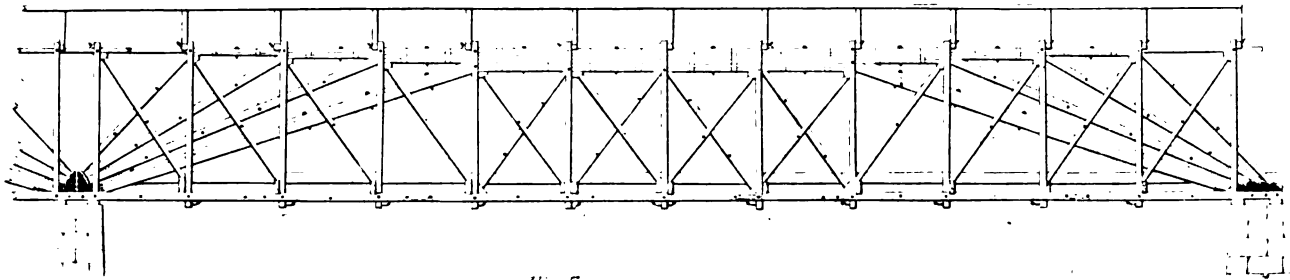
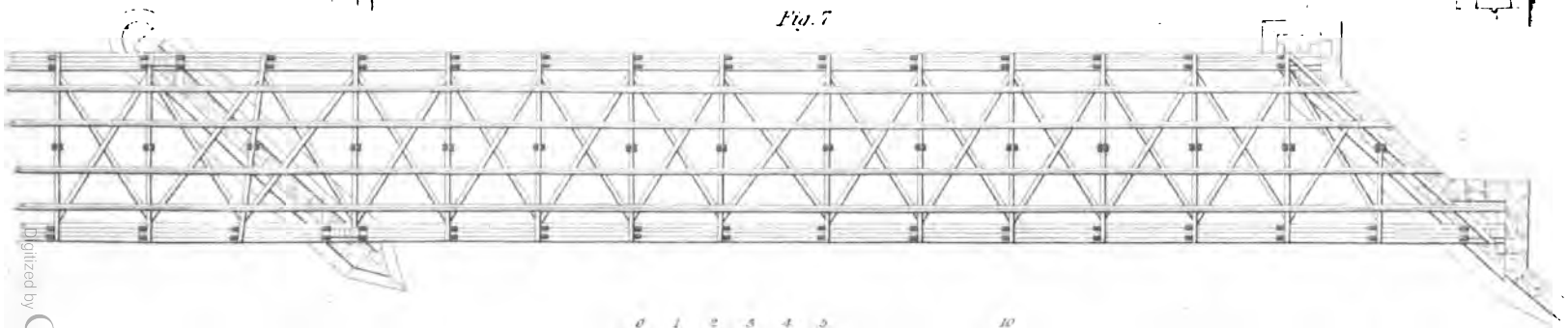


Fig. 7



Scale 0 1 2 3 4 5 10 of Feet

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B.H. Latrobe C.E.

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J. Hawksworth sc.

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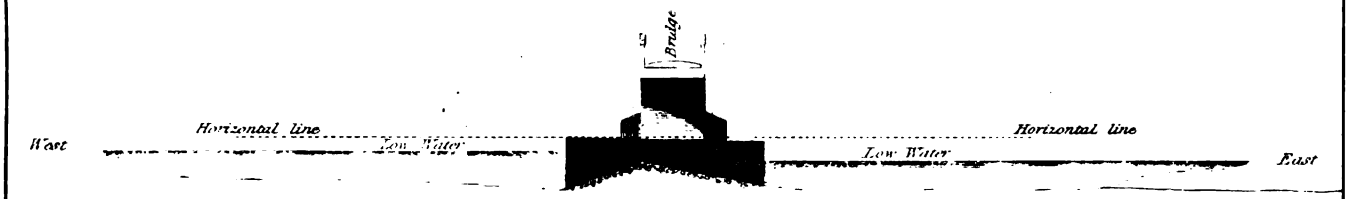
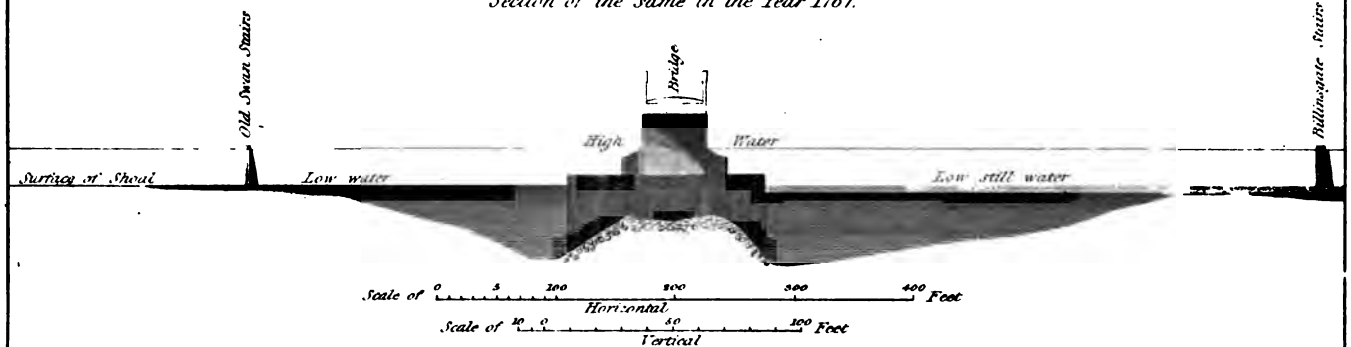
Longitudinal Section under the Central Archway of Old London Bridge, shewing the sunk weir recommended by Mr. Smeaton to hold the water up for the benefit of the Water-works &c. in the Year 1763.



Section of the same in the Year 1767.



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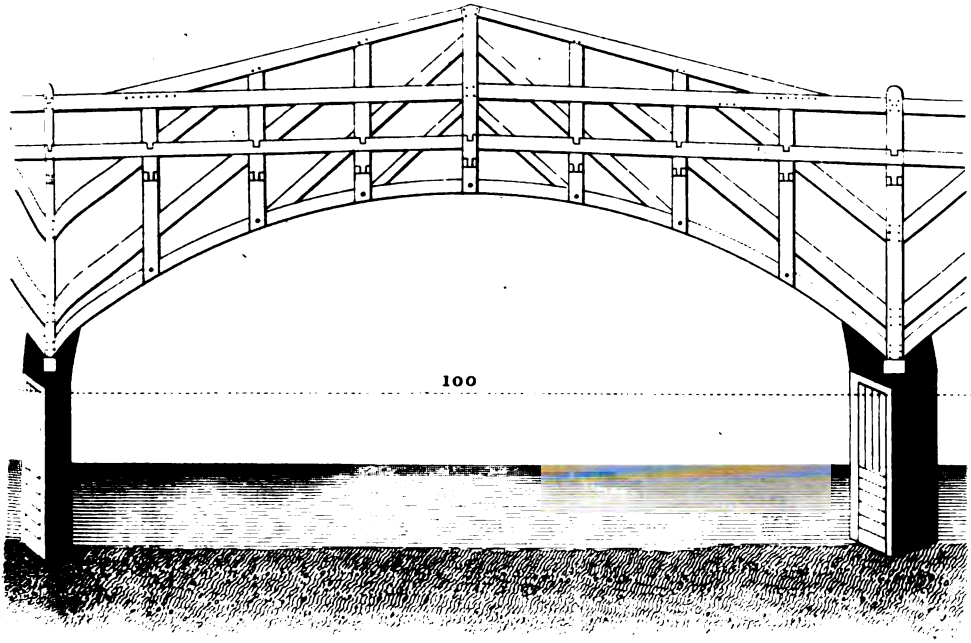
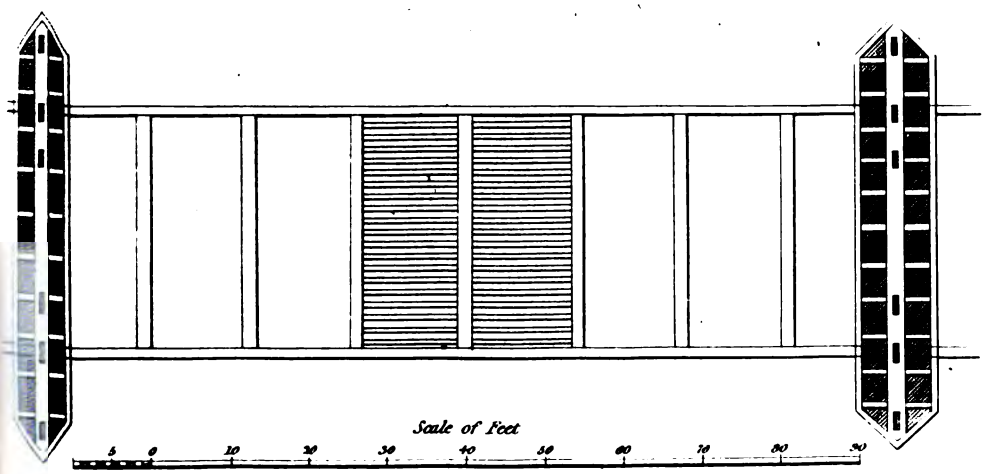


PLAN FOR WESTMINSTER BRIDGE

By JOHN WESLEY, of Leicester, Father of the founder of the Wesleyan Methodists.



This design of Wood will come to £20327, 12
If Stone Piers ..... 31057 „ J.W.

S. Bellin sc.

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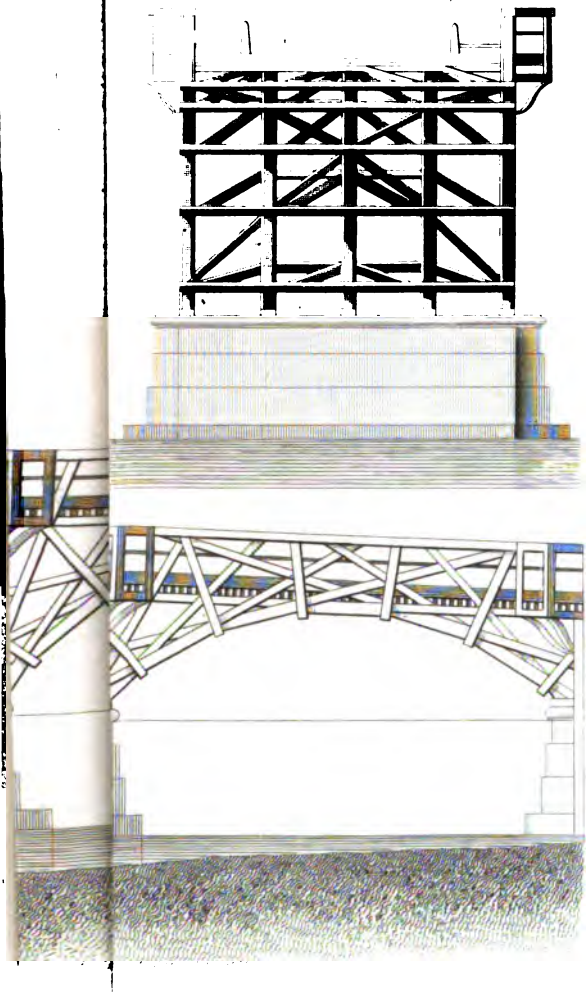

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S. Bellin sc.

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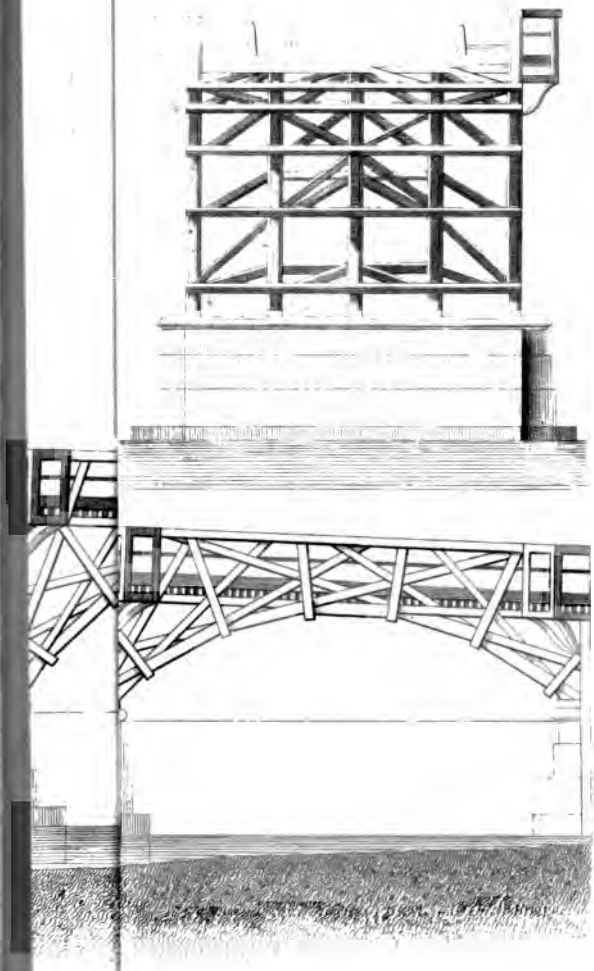
Plate 21.



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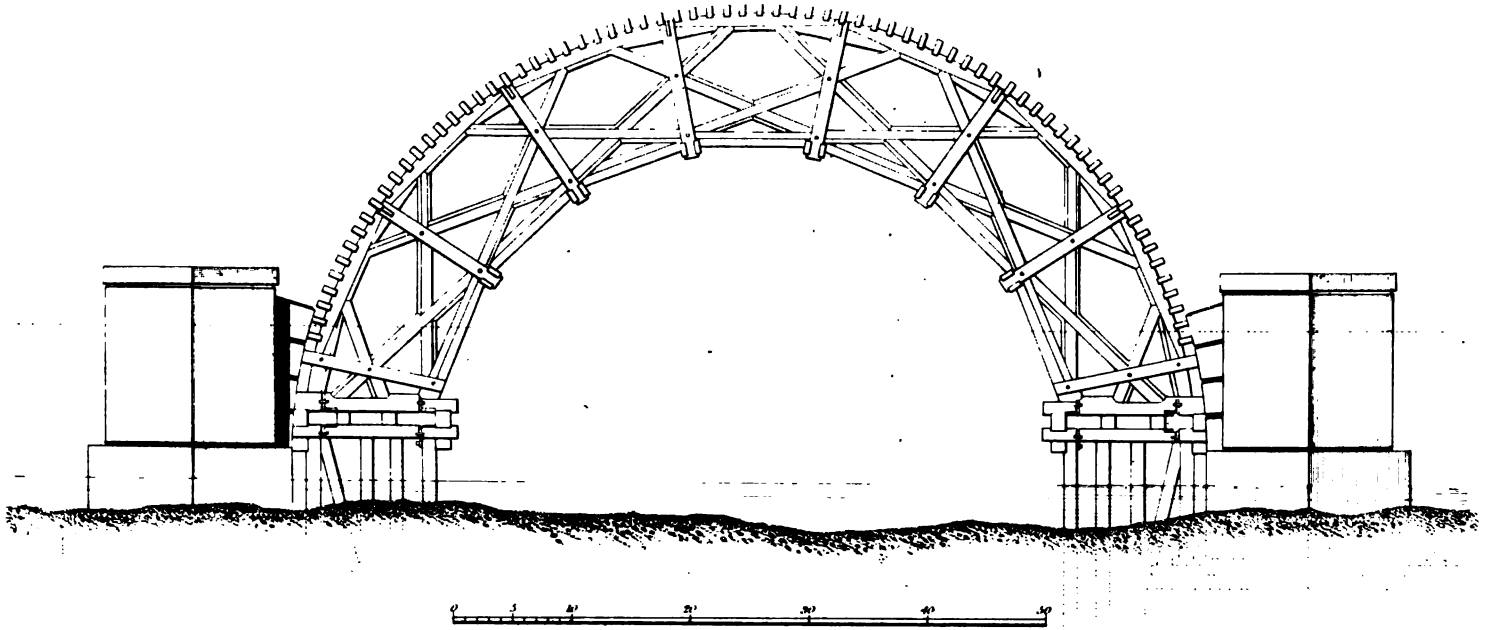

One of the five Ribs of the Center on which the Middle Arch of **WESTMINSTER BRIDGE** *was turned, extending 76 feet. Designed & Executed by Jas. King.*

Jas. King, Joiner, del. *S. Bellin, sc.*

John Weale, Architectural Library, 59 High Holborn.

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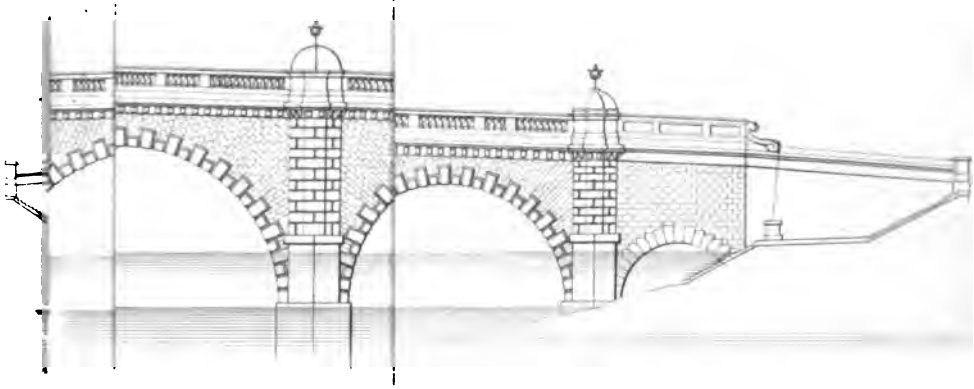

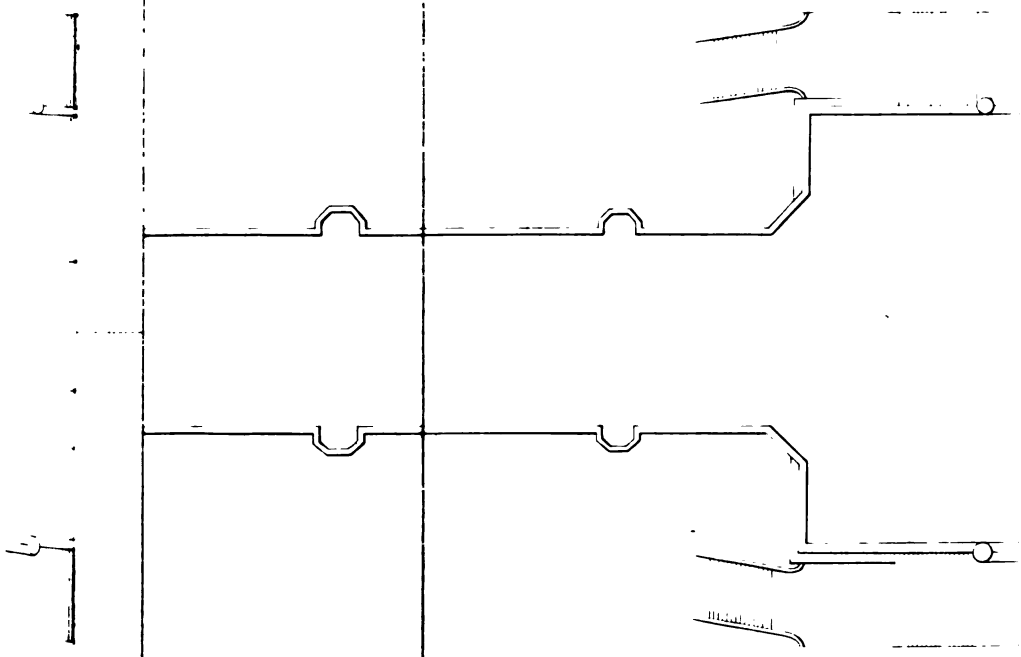

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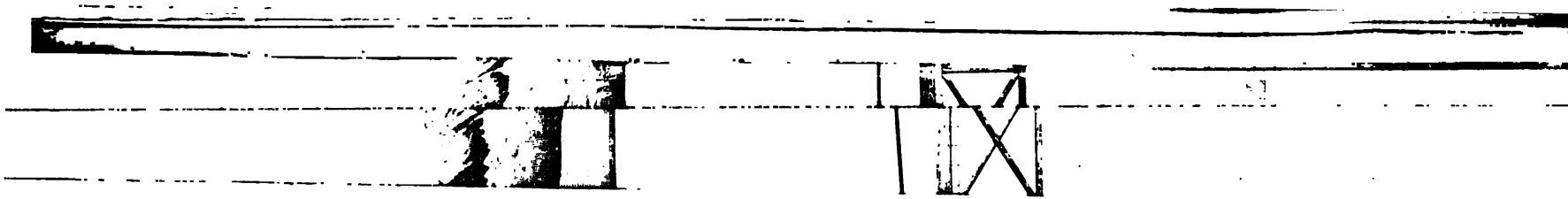

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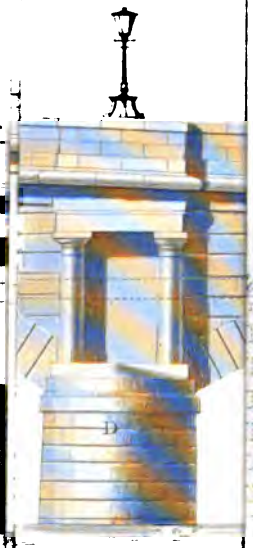

...ood in 1782

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	12	„ —
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...s	38	„ —
	65	„ —

J. Hawksworth Sc.

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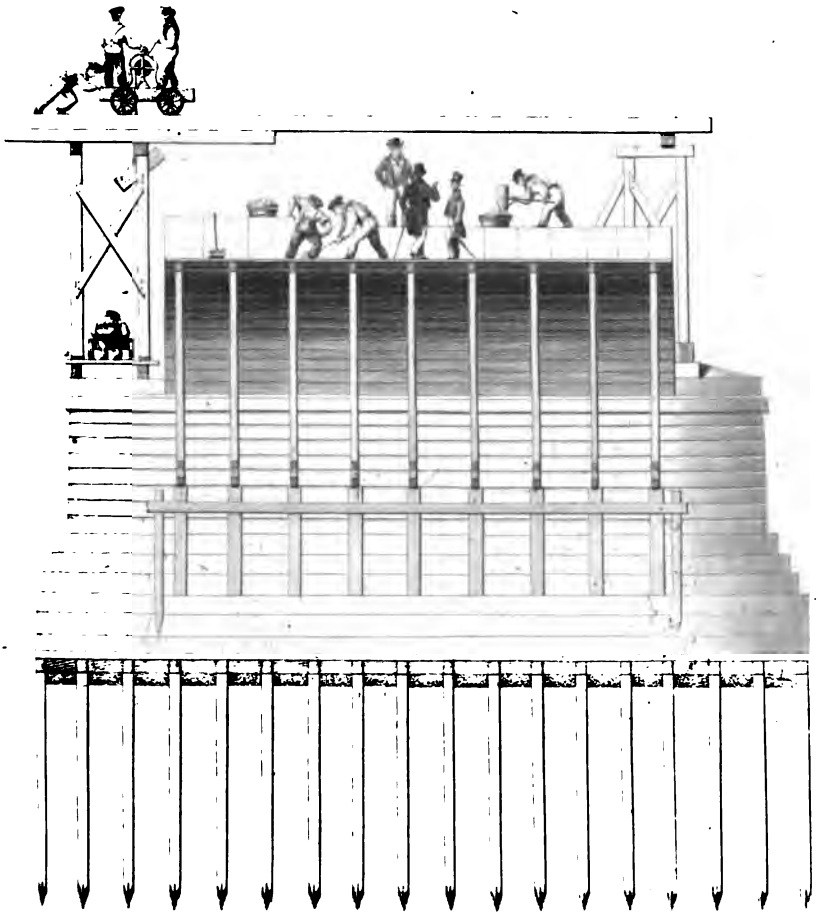
HUTCHESON BRIDGE, GLASGOW.



Gross Section shewing the Building Apparatus and centre frames.

Scale of Feet

10 5 0 10 20 30 40 50

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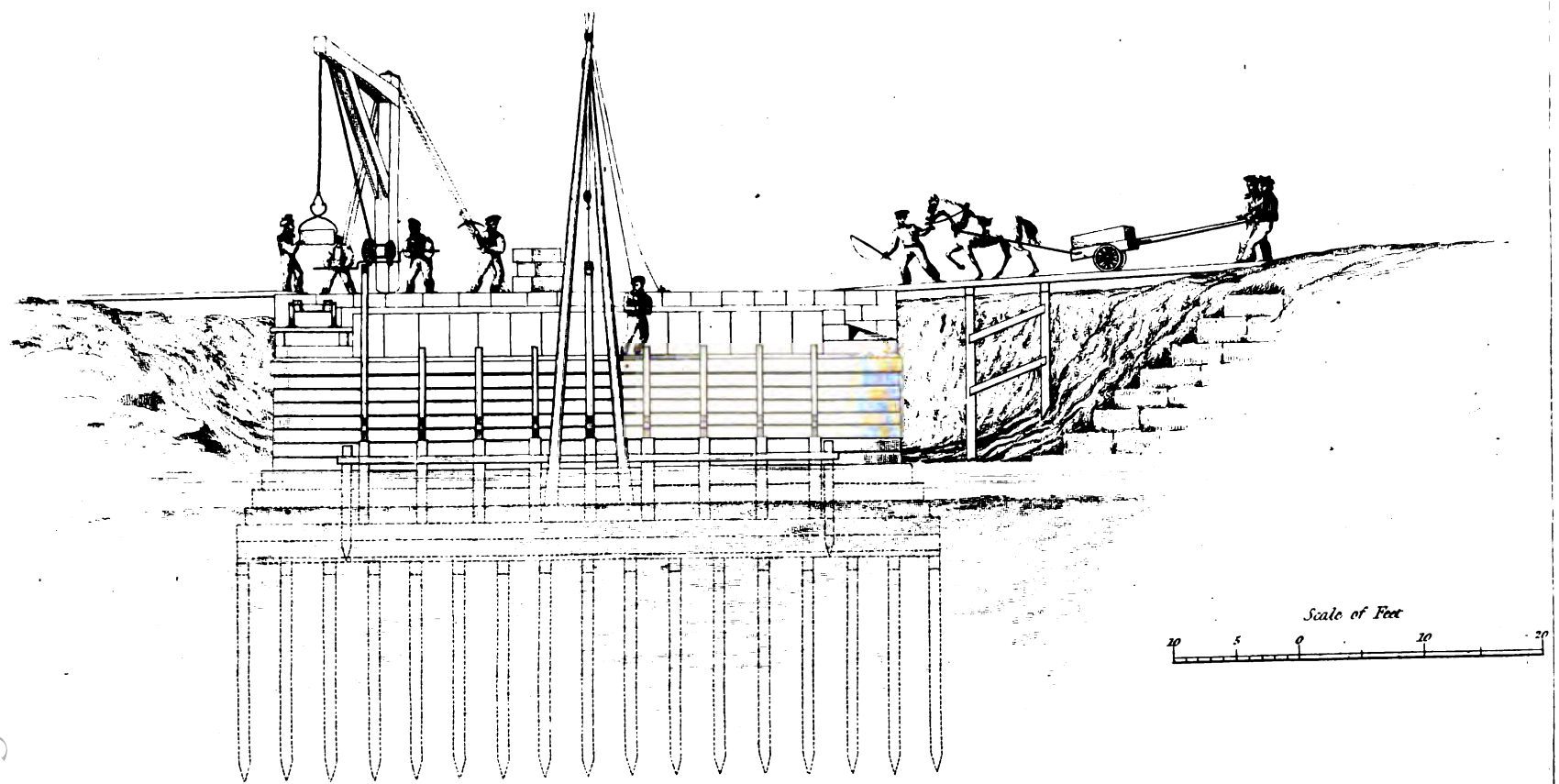

Cross Section at B.

James Andrews del *J. Hawksworth sc.*

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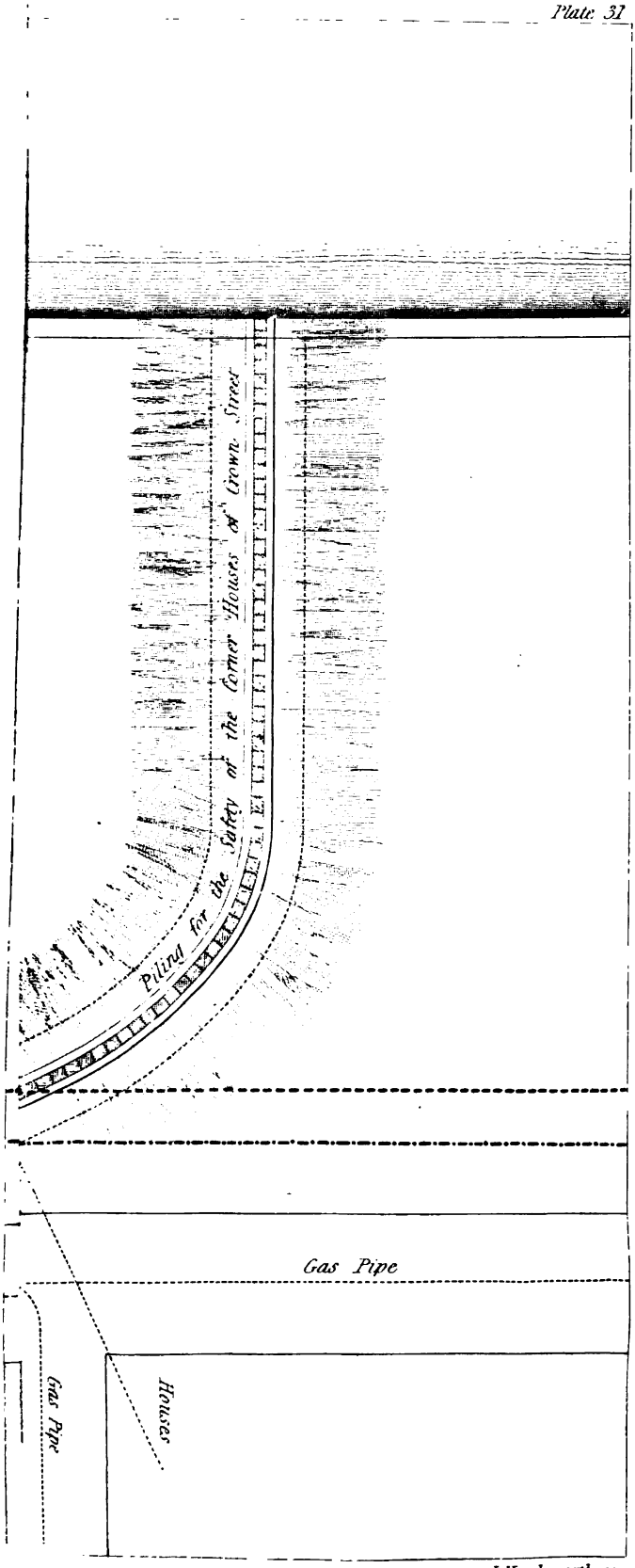

J Hawksworth sc.

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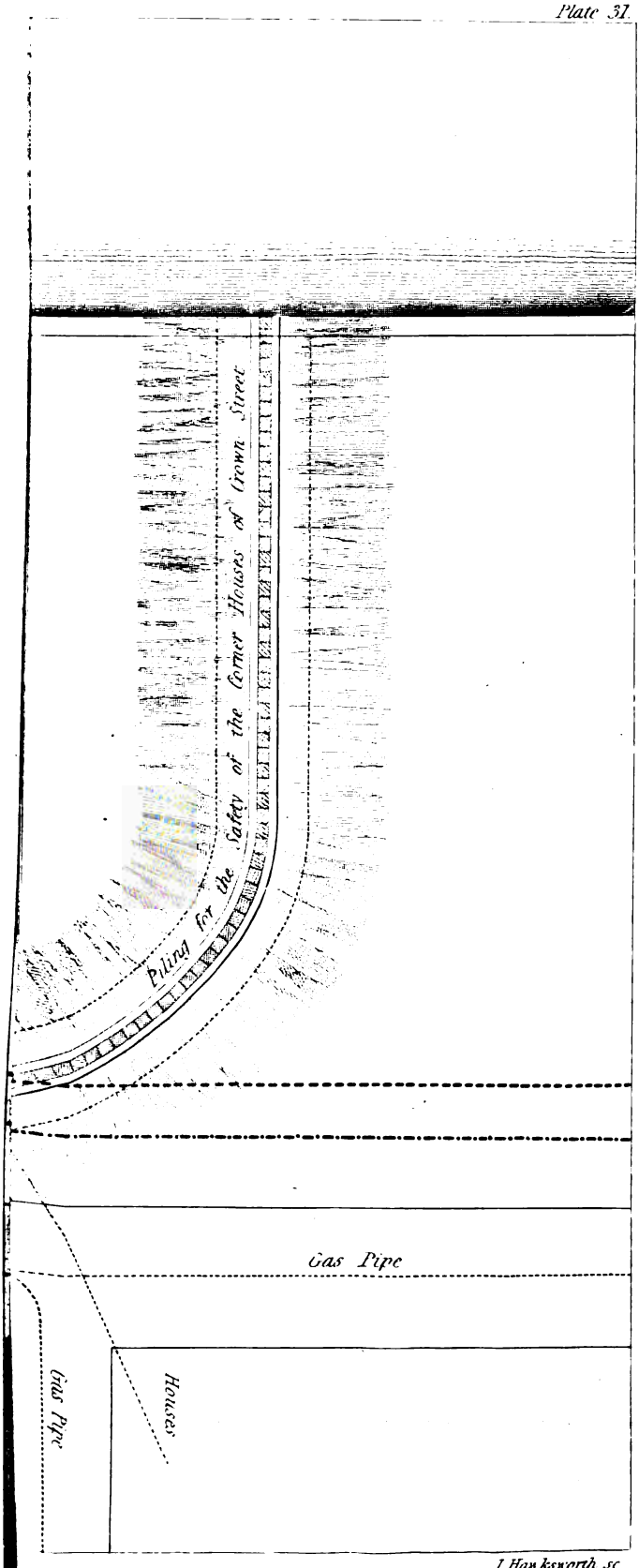

J. Hawksworth sc

of Feet

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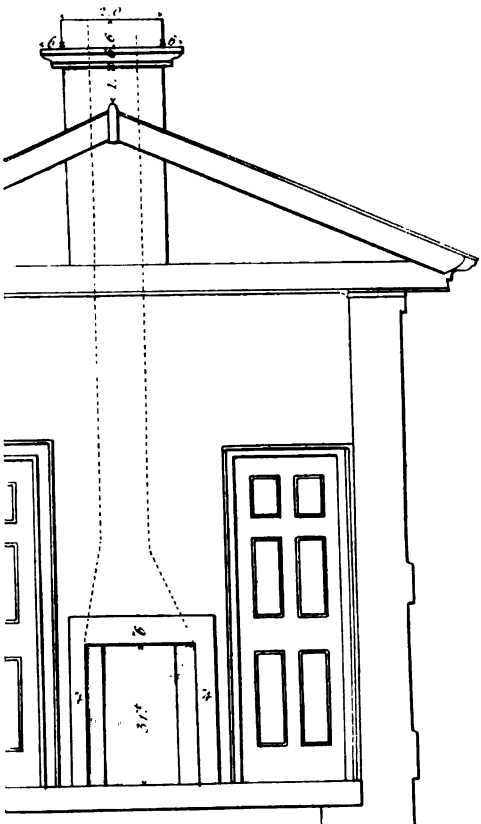

Section

J Hawksworth sc.

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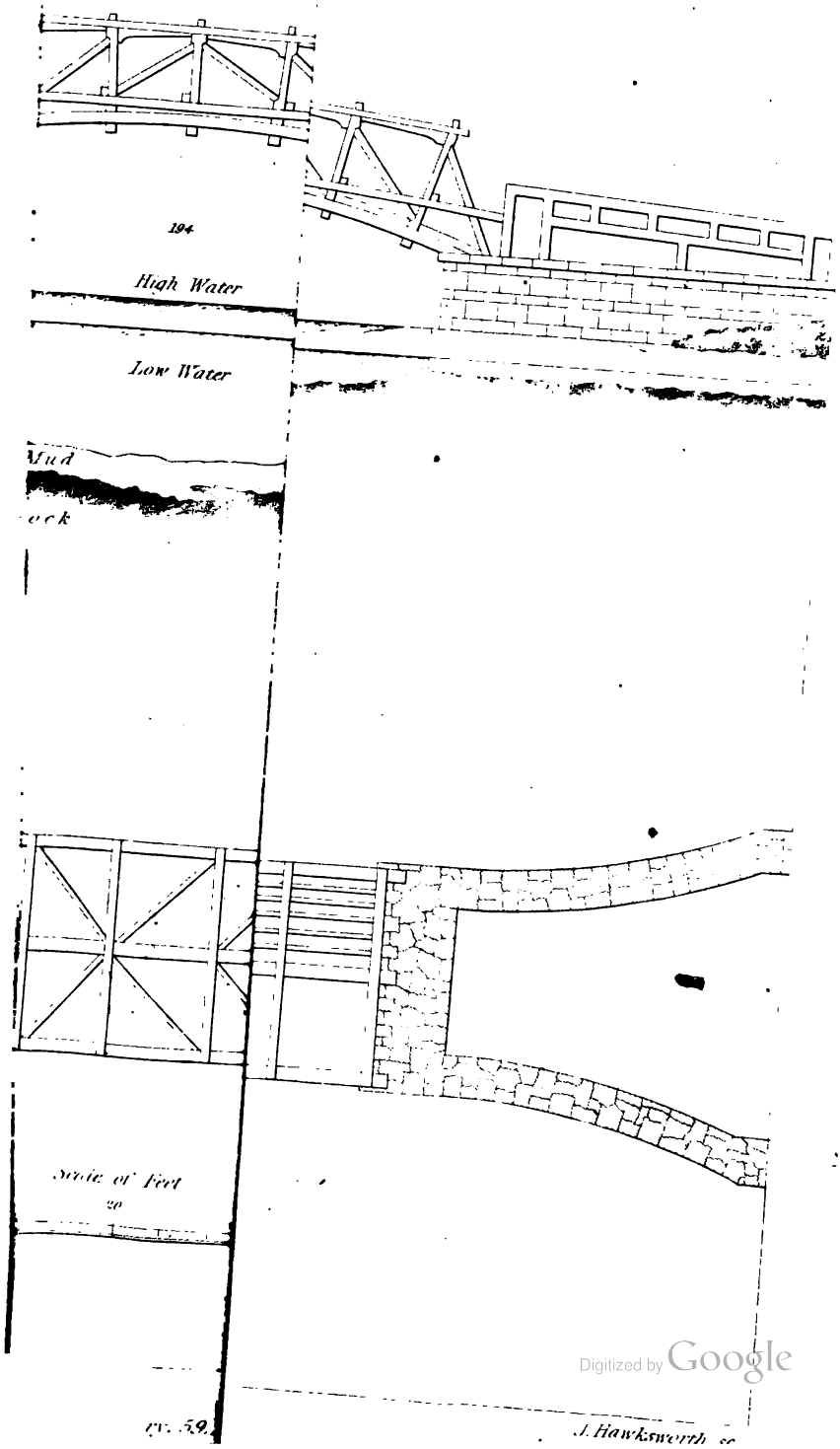
Plate 34.



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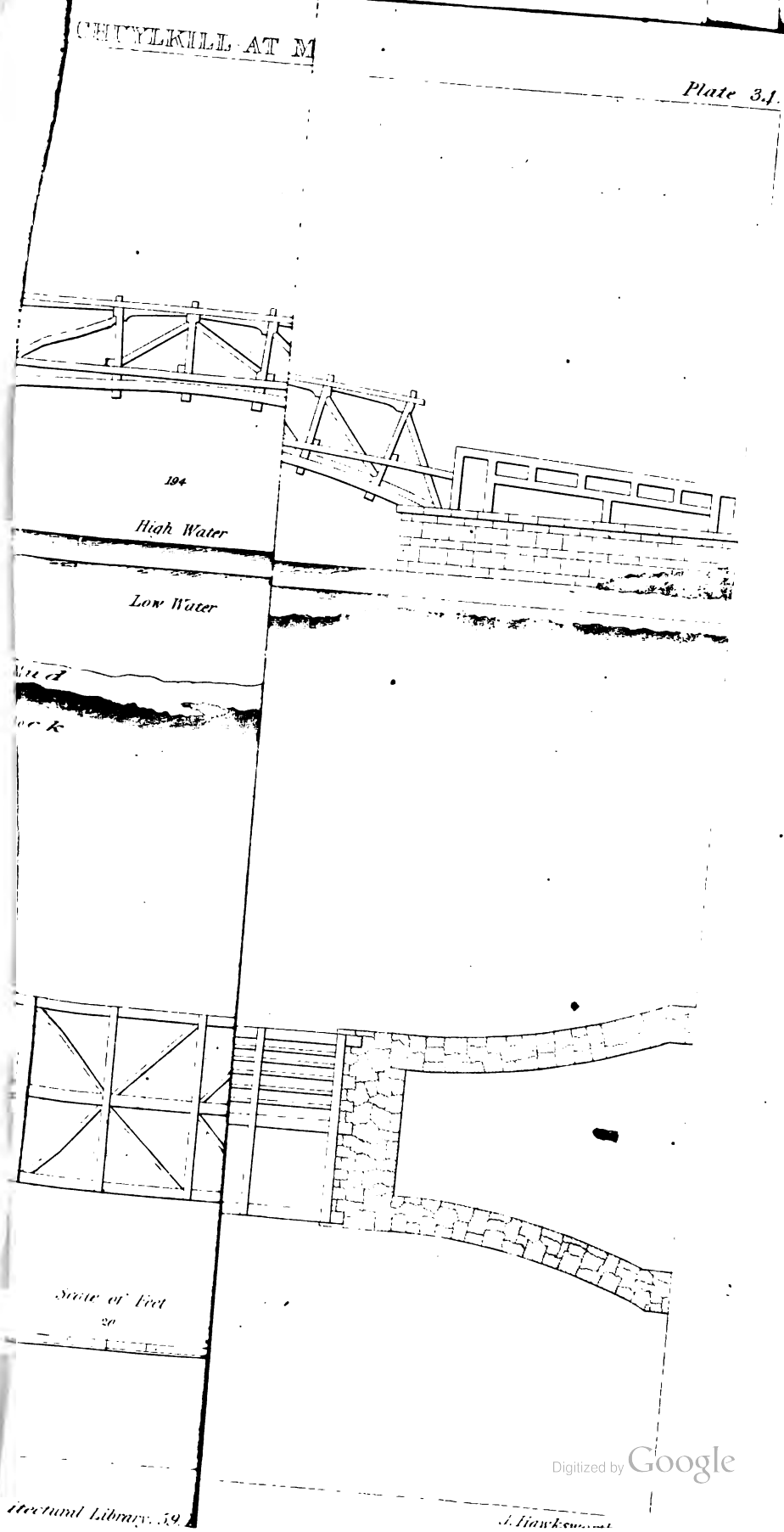

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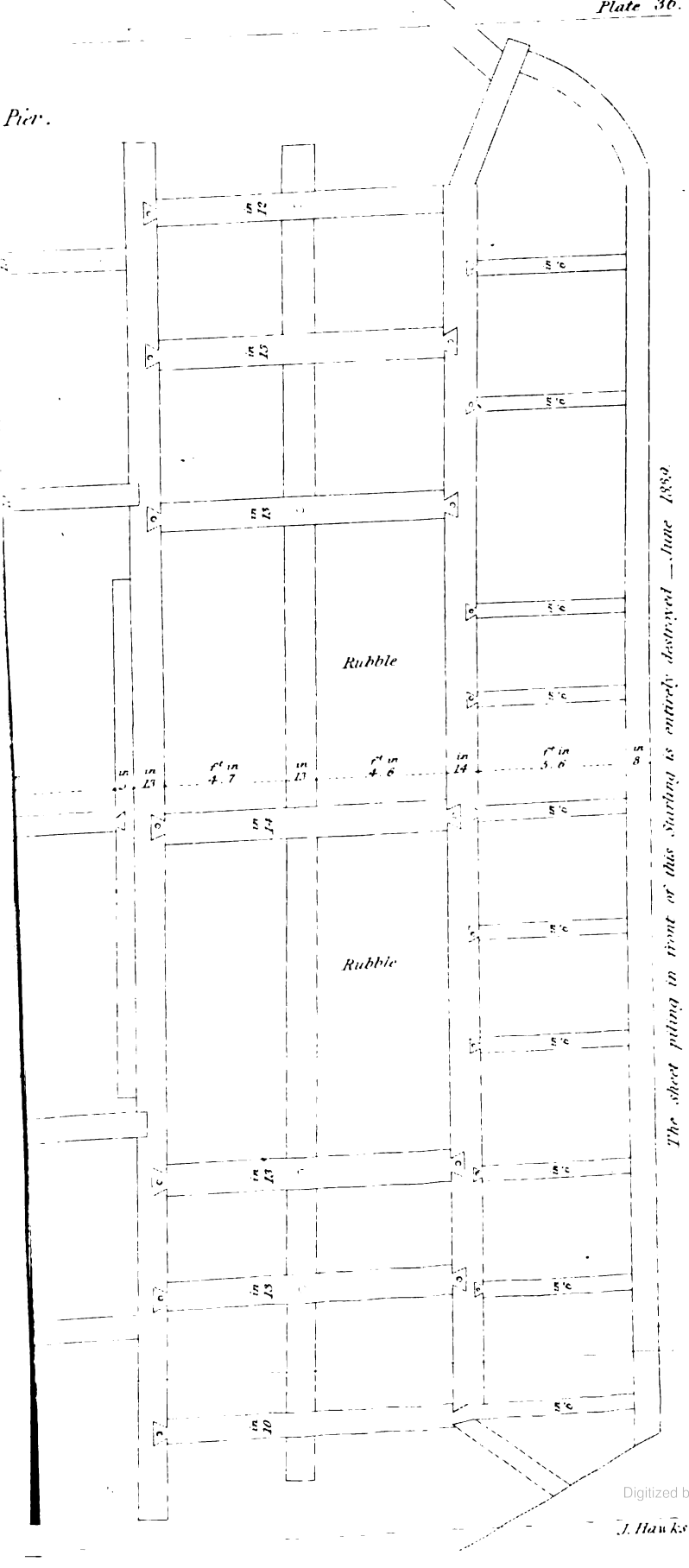

The sheet piling in front of this Starling is entirely destroyed — June 1880.

J. Hawksworth sc.

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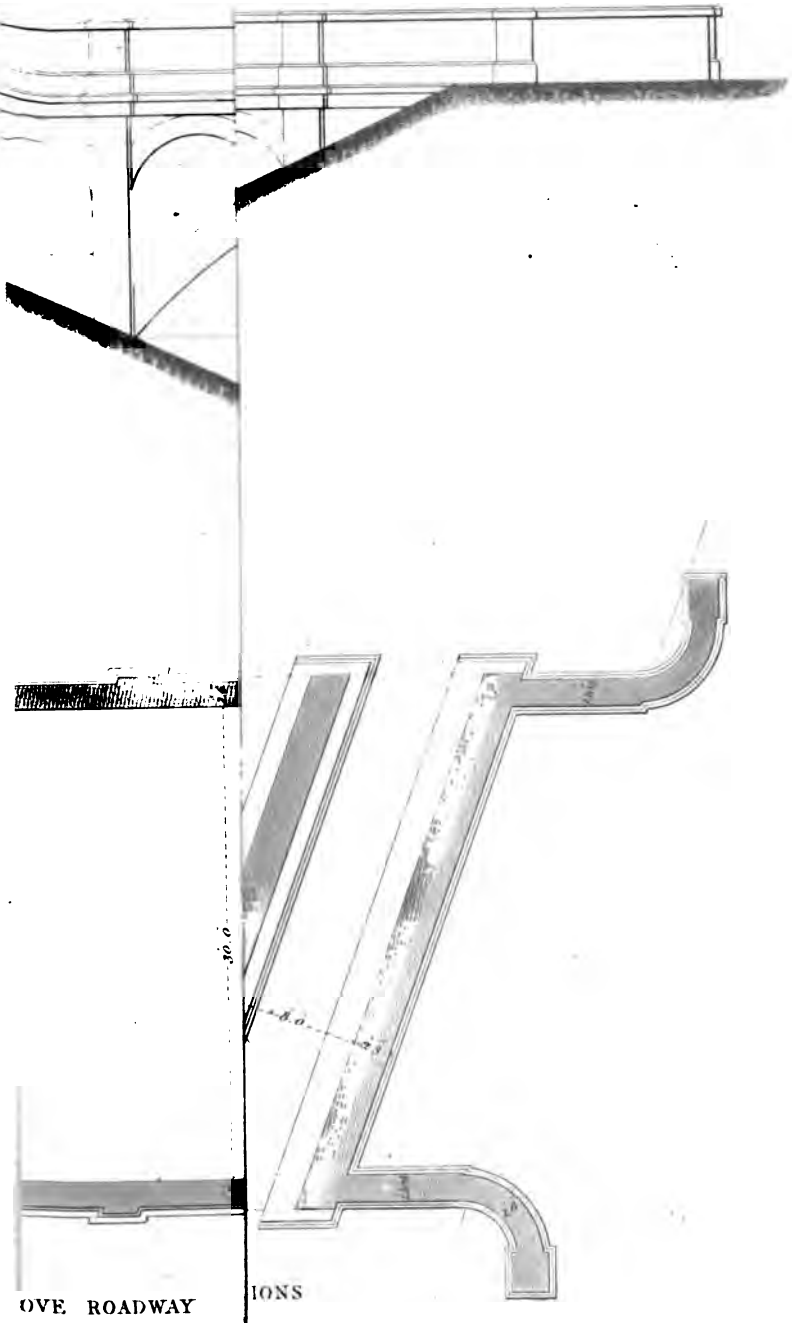

OVE. ROADWAY

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S. Porter sc.

Jonry. 59. High Holborn

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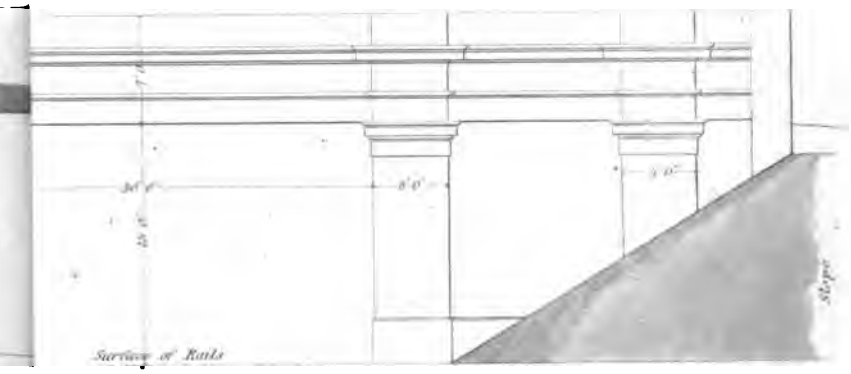
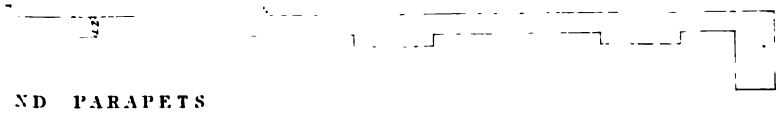


ELEVATION

LAN OF FOUNDATIONS



ND PARAPETS

R.R Davies fculp.

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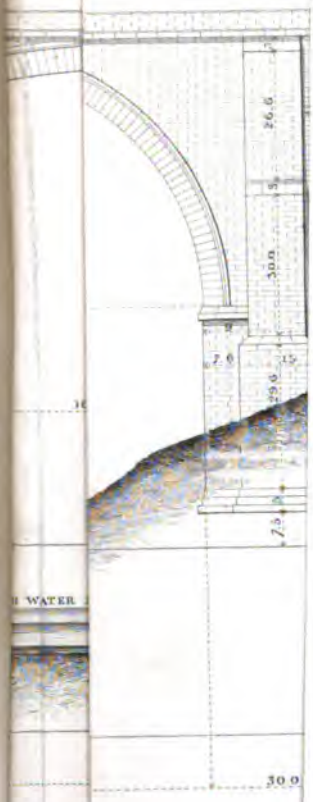

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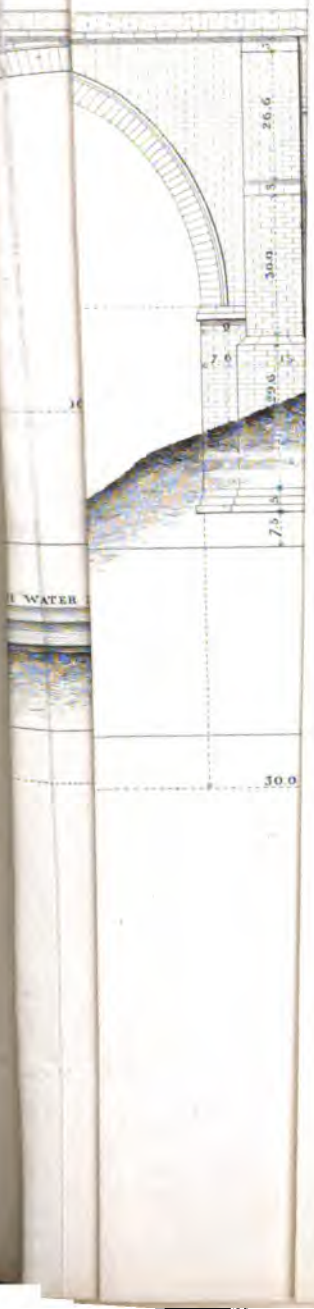

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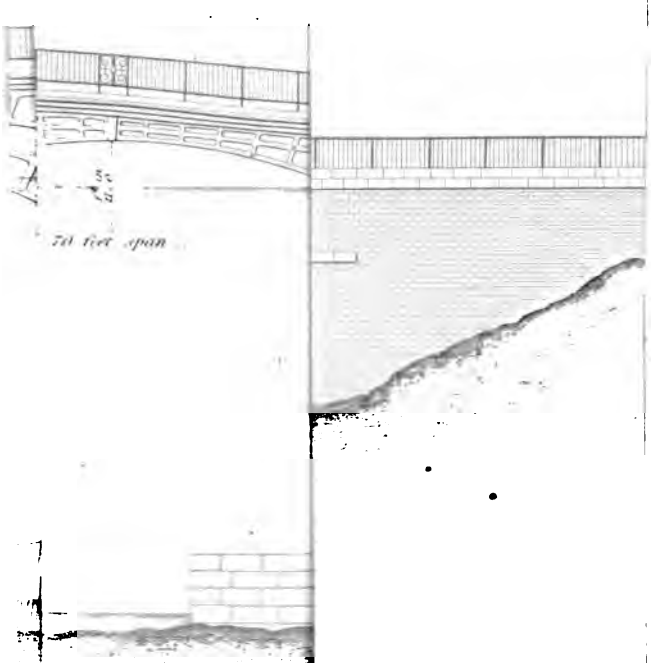

J. Hawksworth sc

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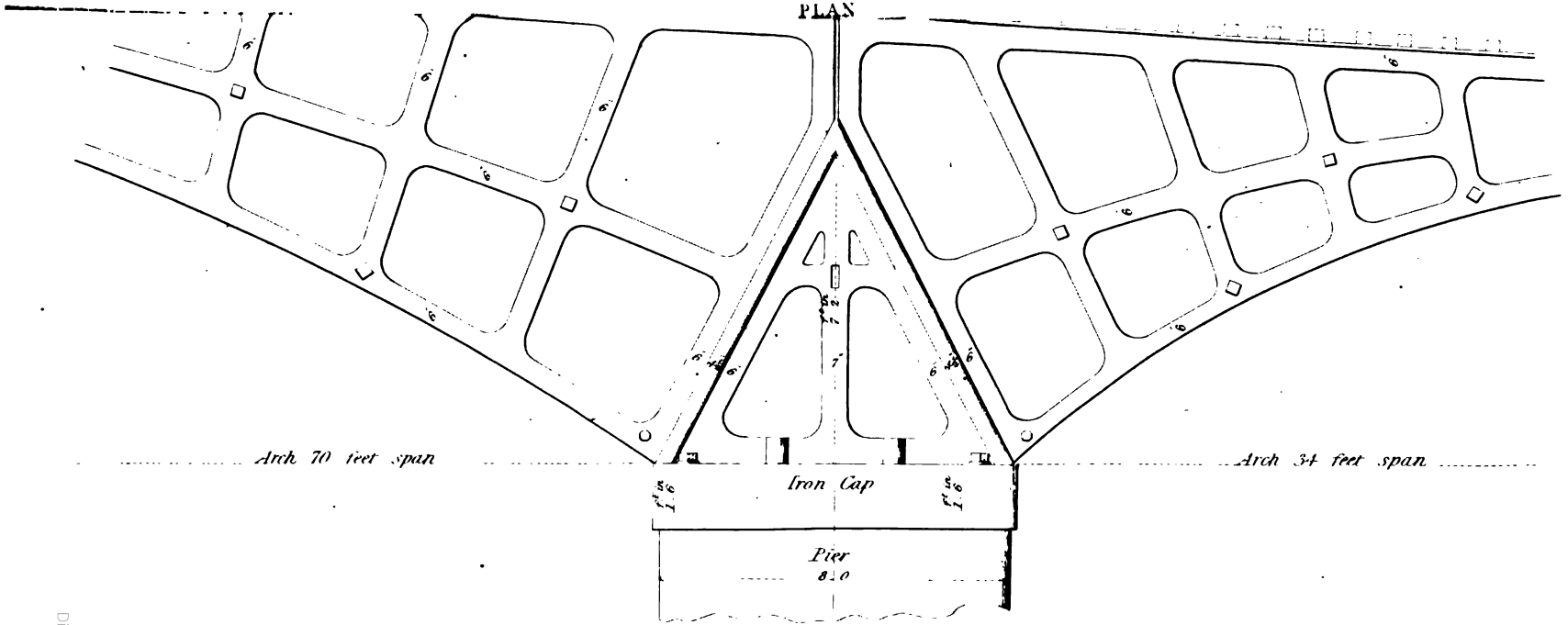

J. Hawksworth sc

John Weale, Architectural Library, 59, High Holborn.

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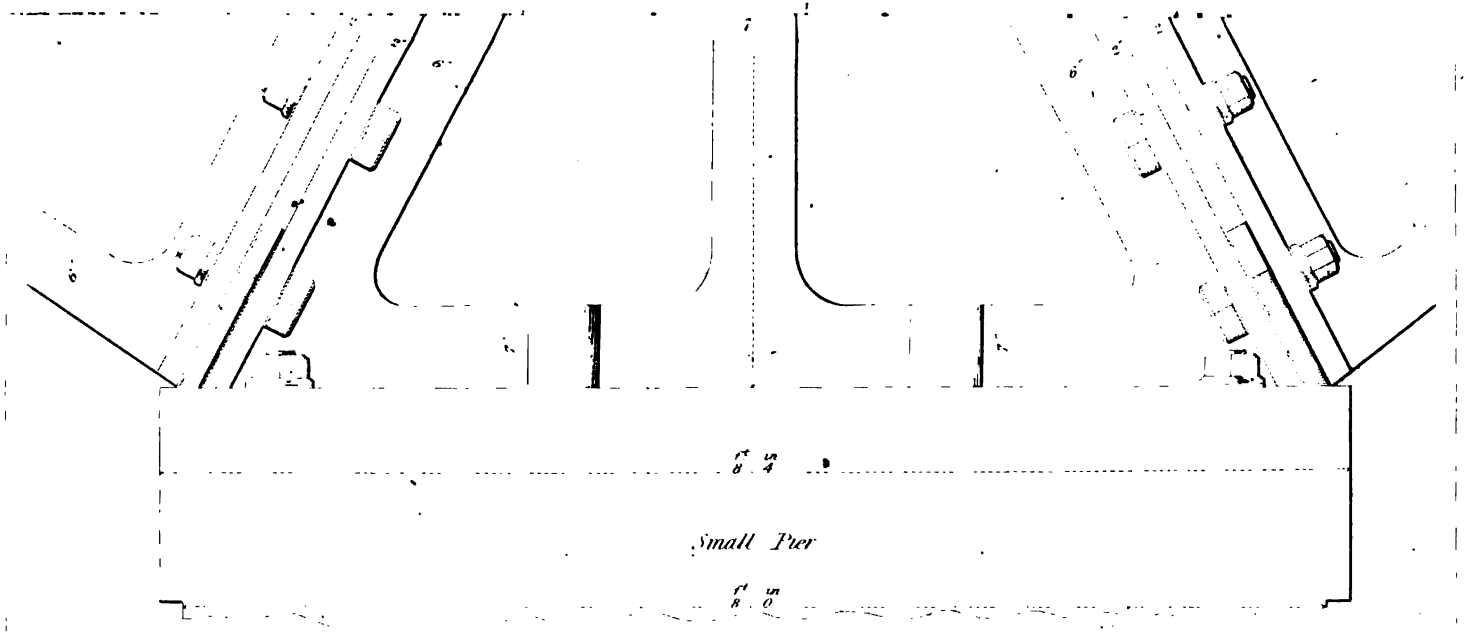

John Weale Architectural Library 59 High Holborn

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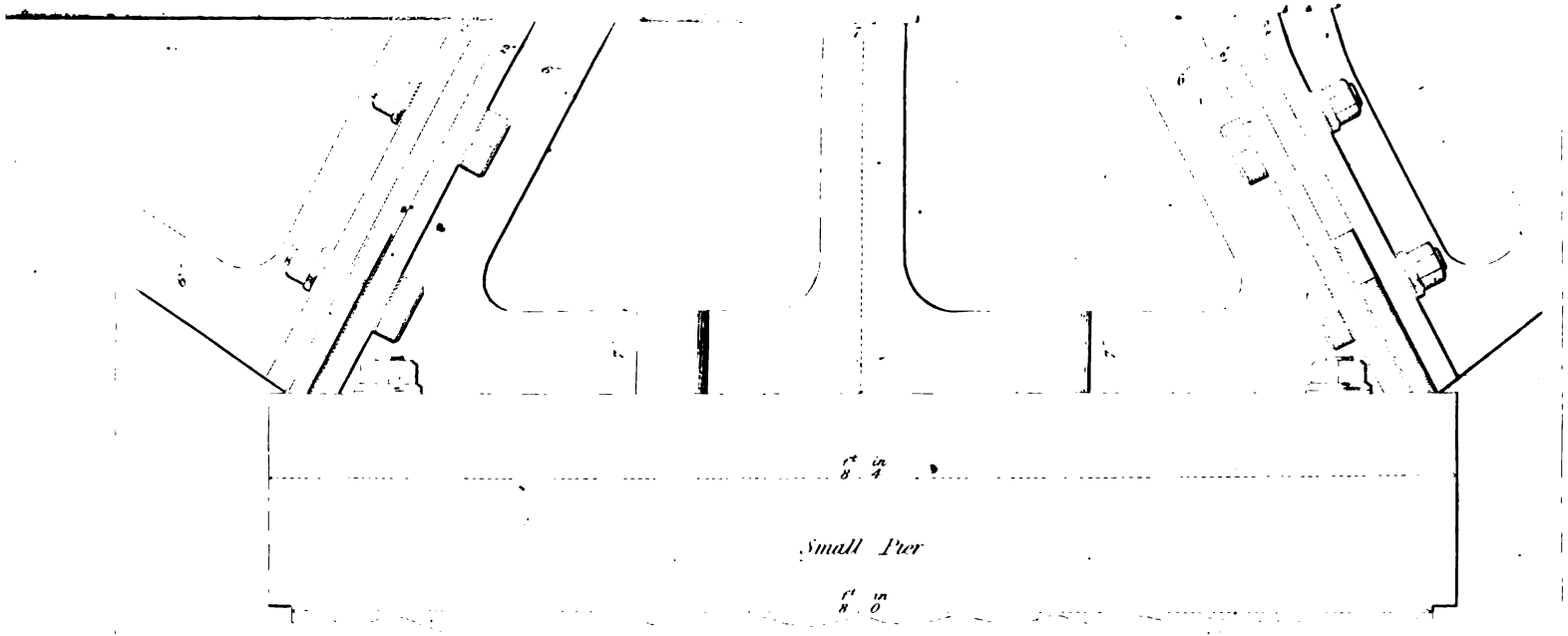

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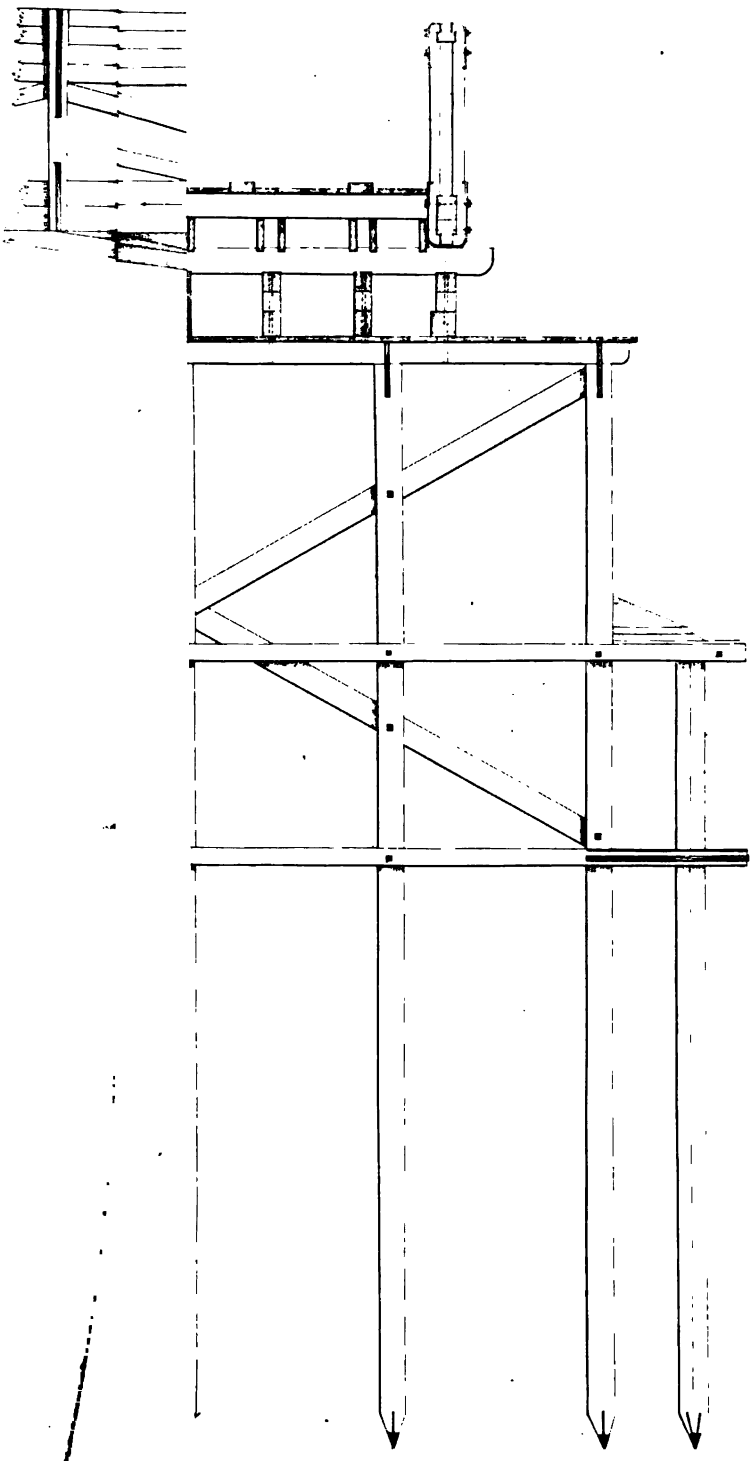

verse Section of Roadway

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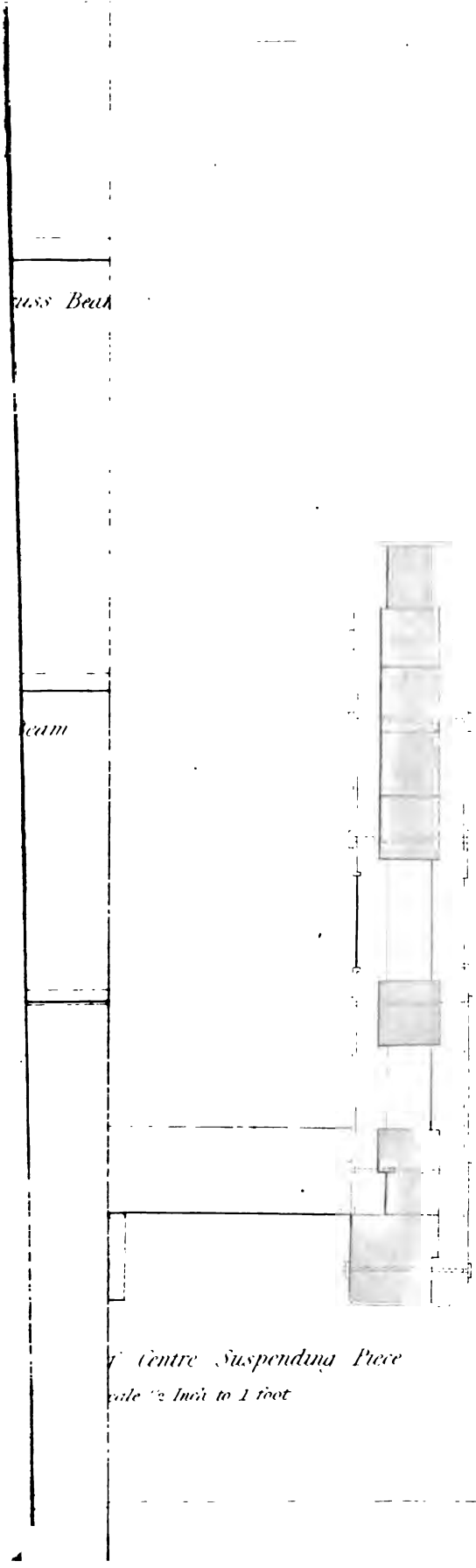

Centre Suspending Piece

cale ½ Inch to 1 foot

J. Hawksworth sc

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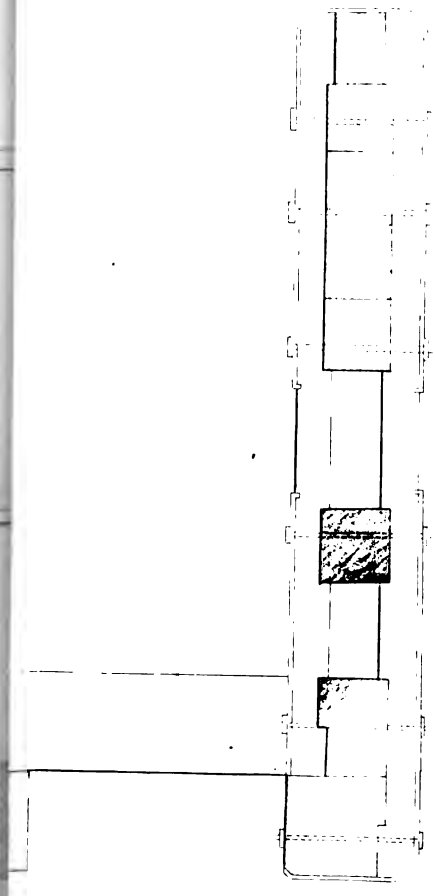

Centre Suspending Piece

Scale ½ Inch to 1 foot

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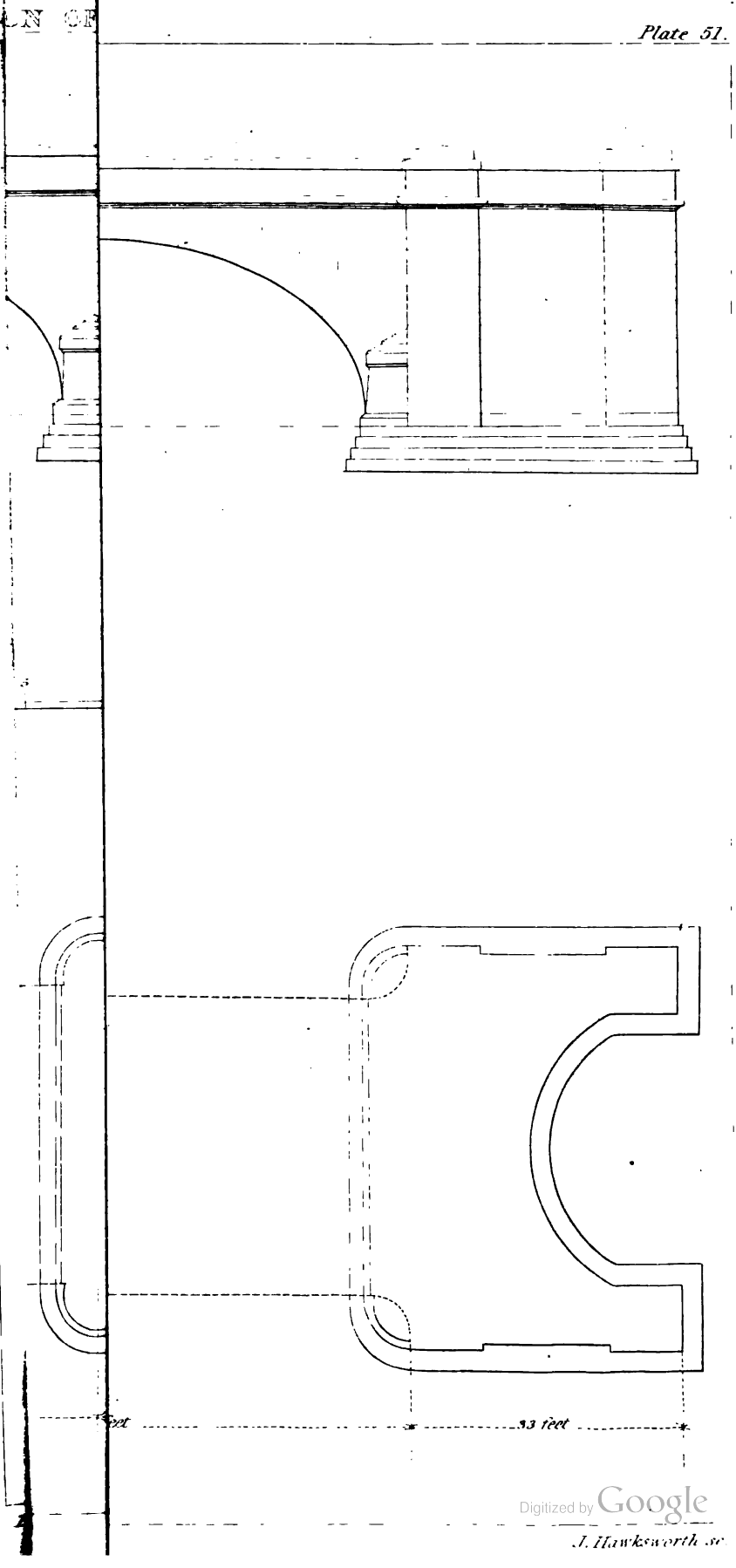

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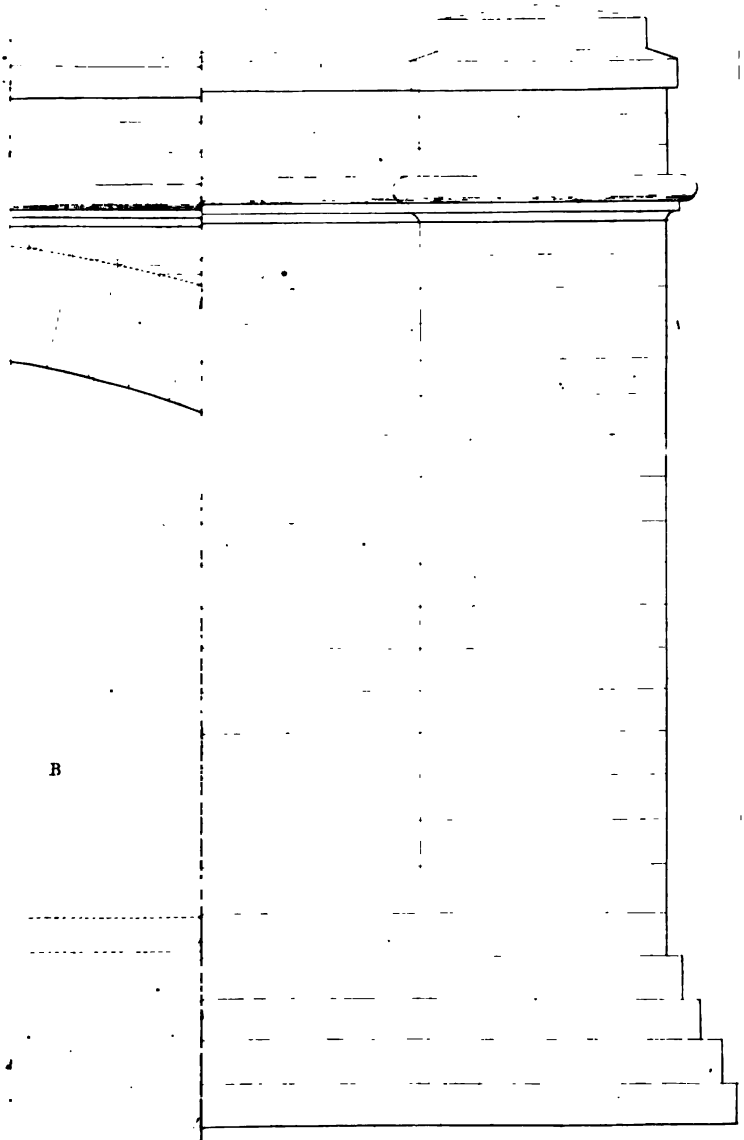

describe the inside

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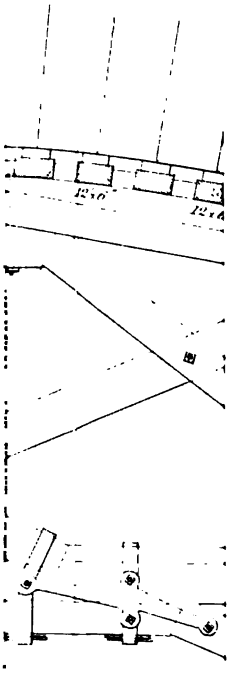

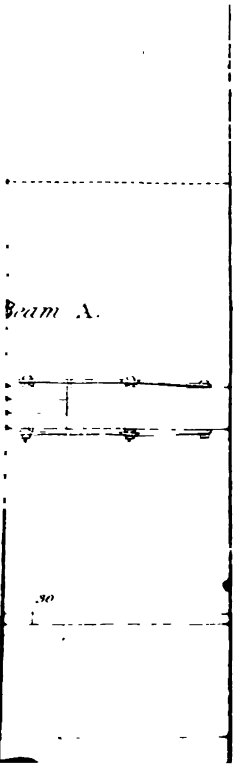

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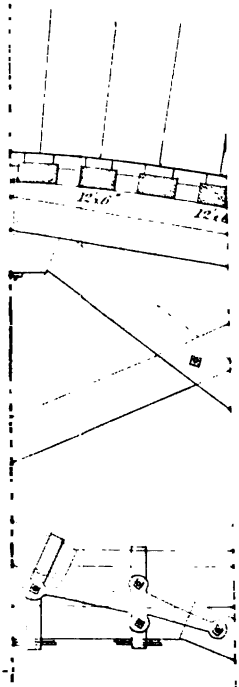

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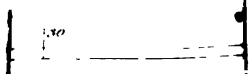

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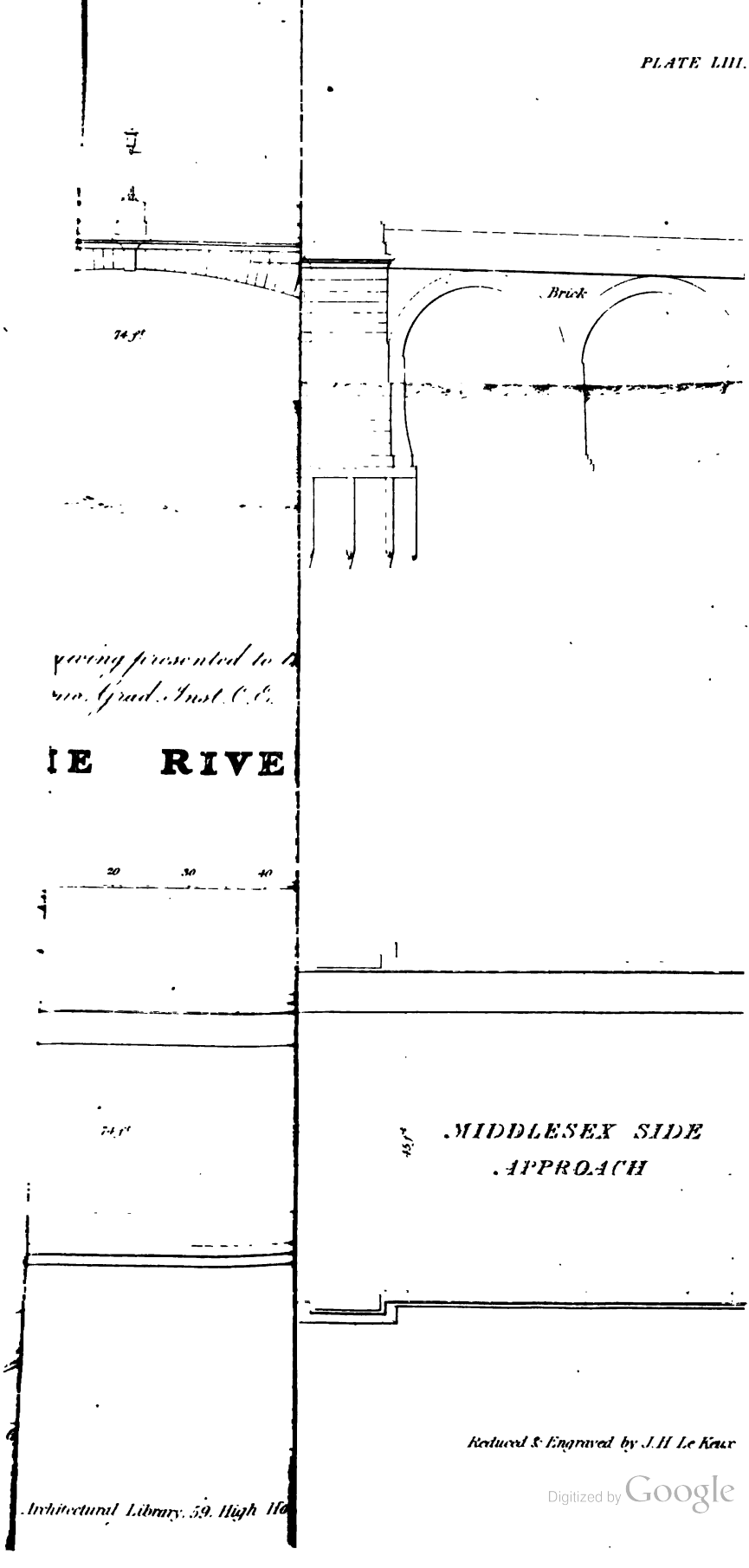

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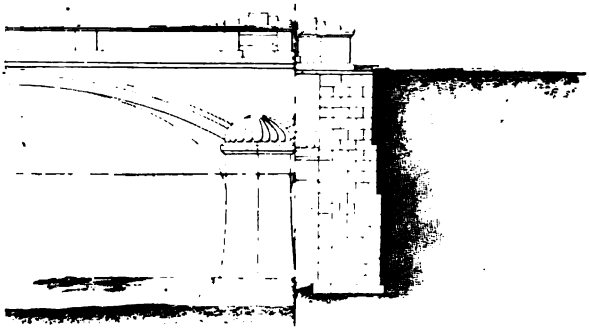

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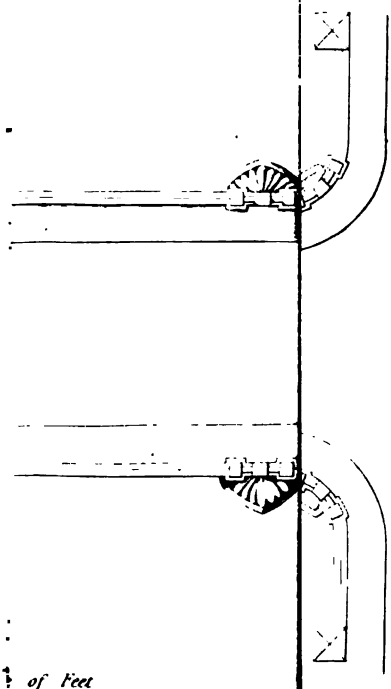

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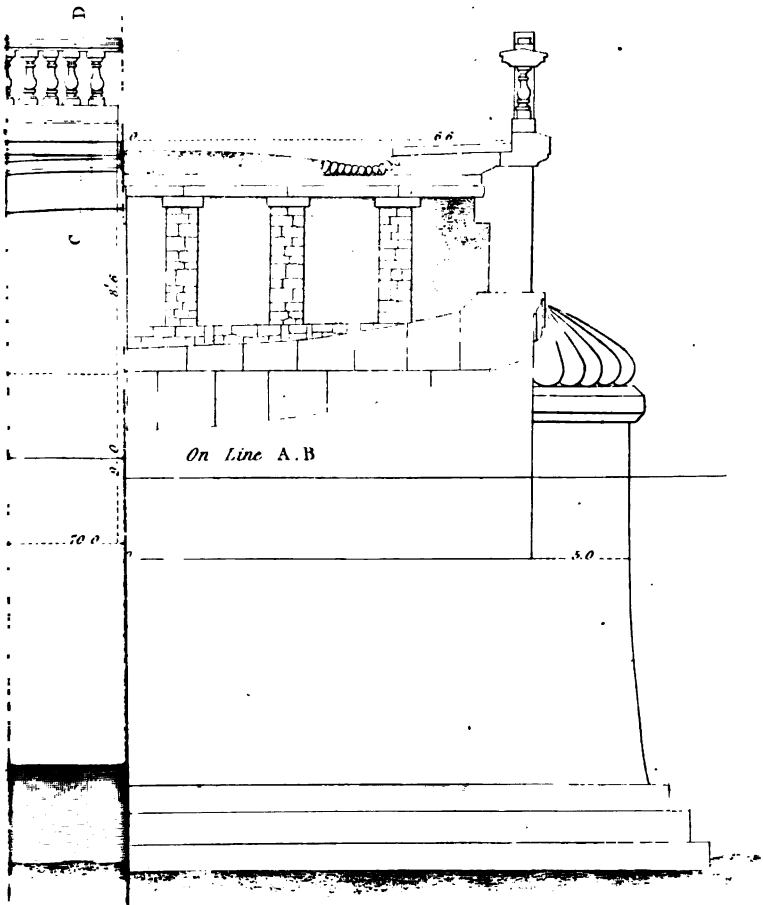

ALF ARCH IRO CROWN AND SPANDREL

J. Hankinson sc

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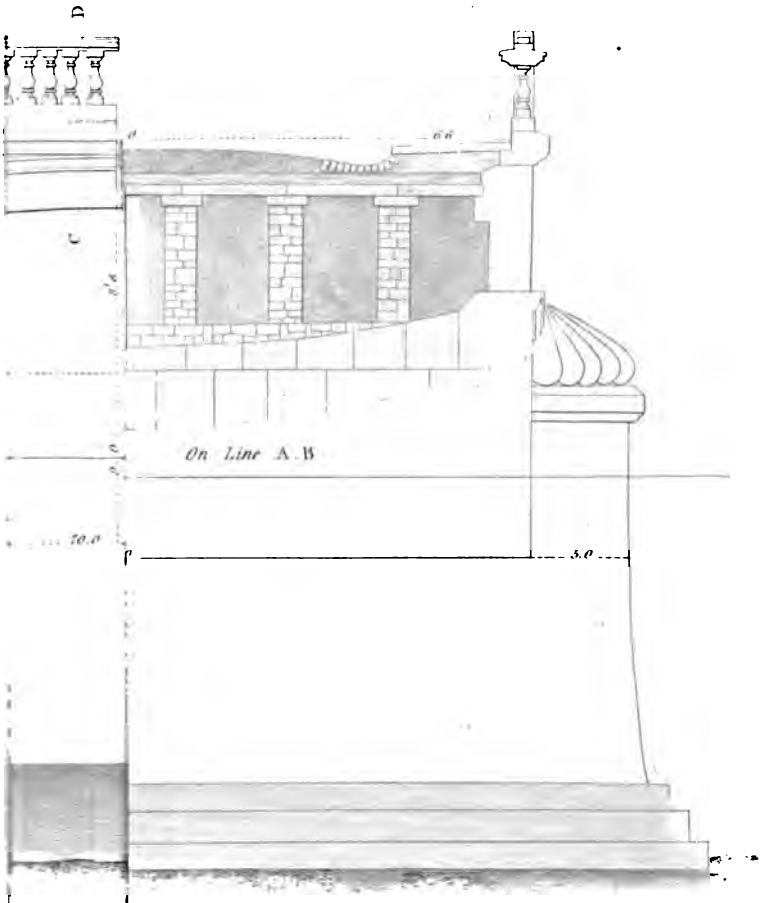

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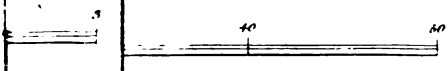

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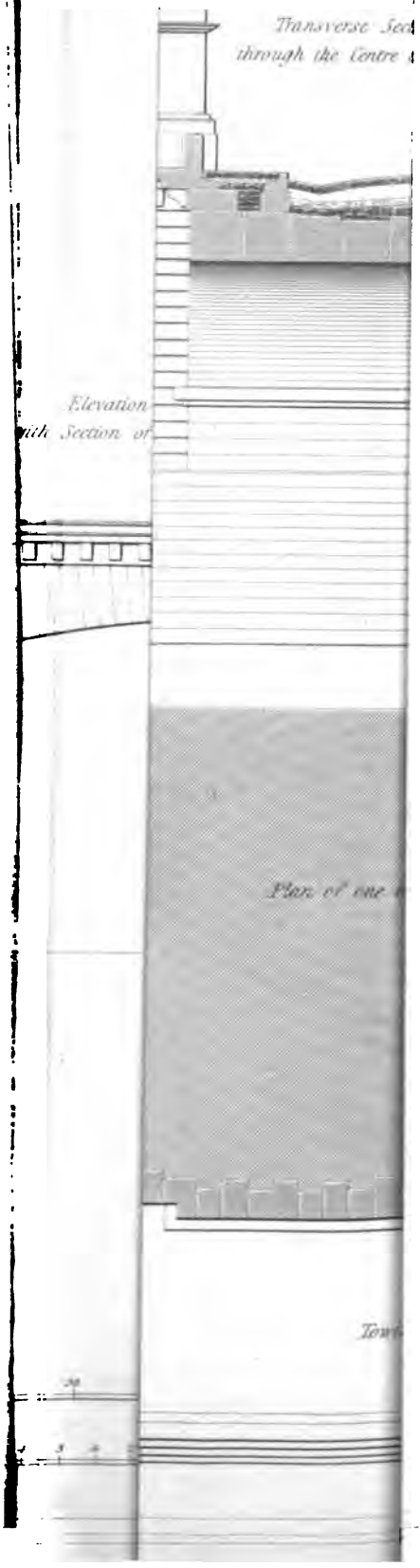

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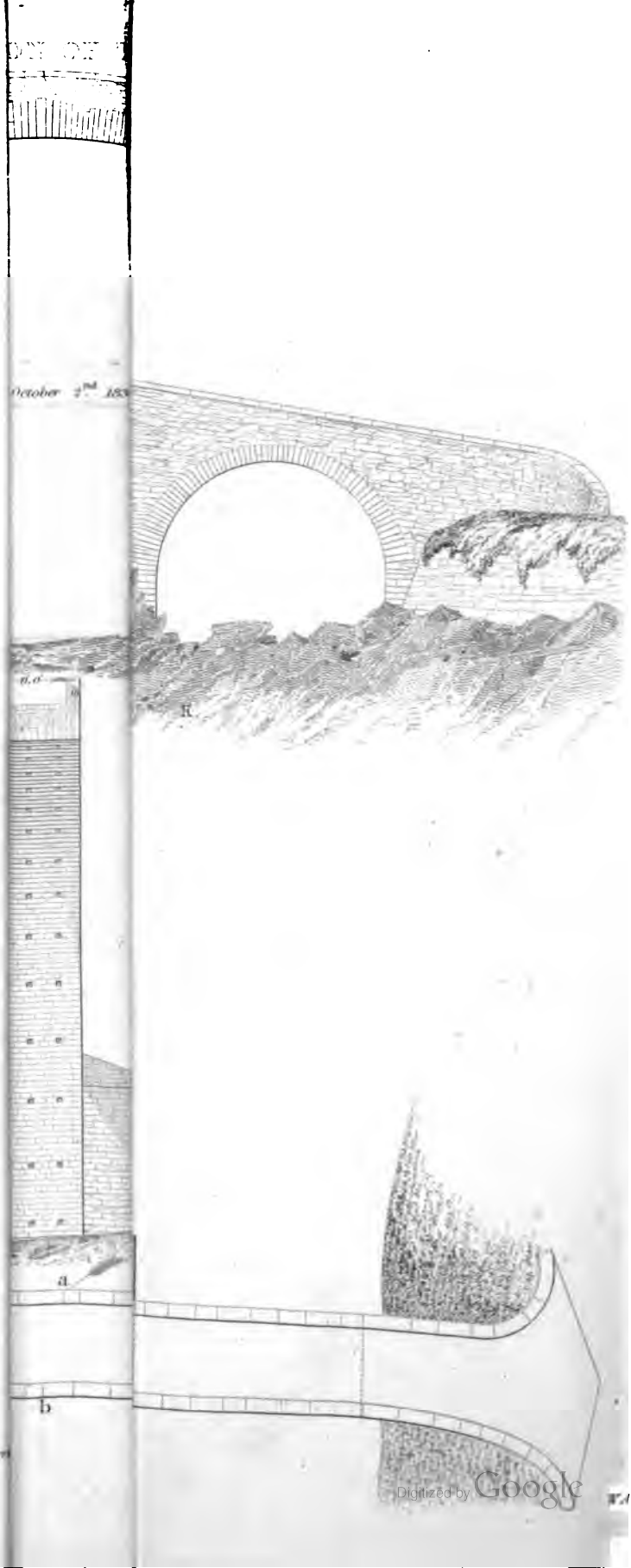

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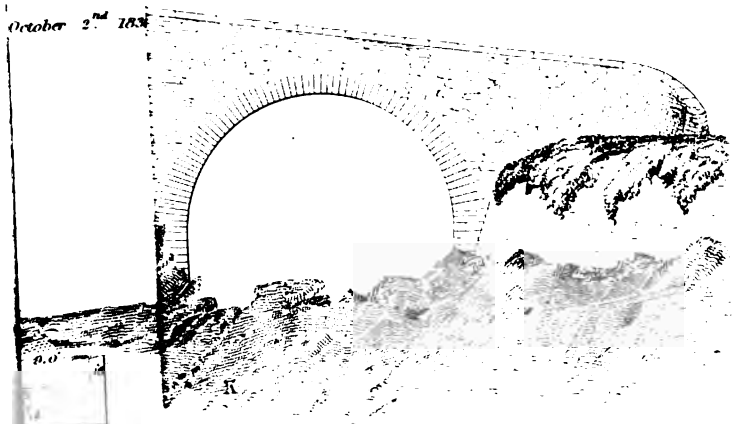

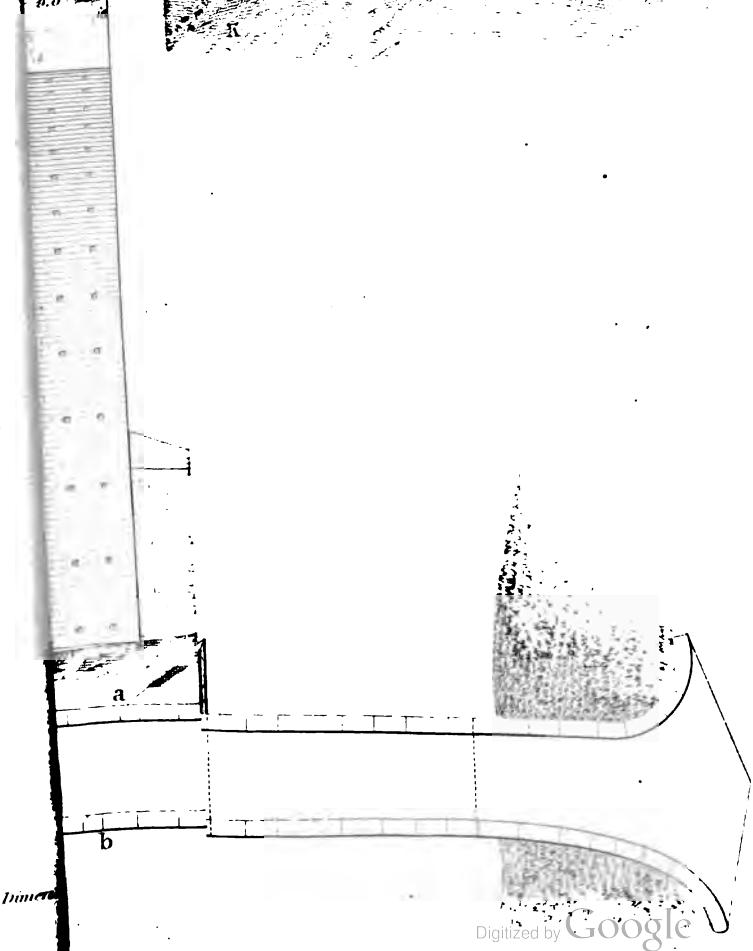

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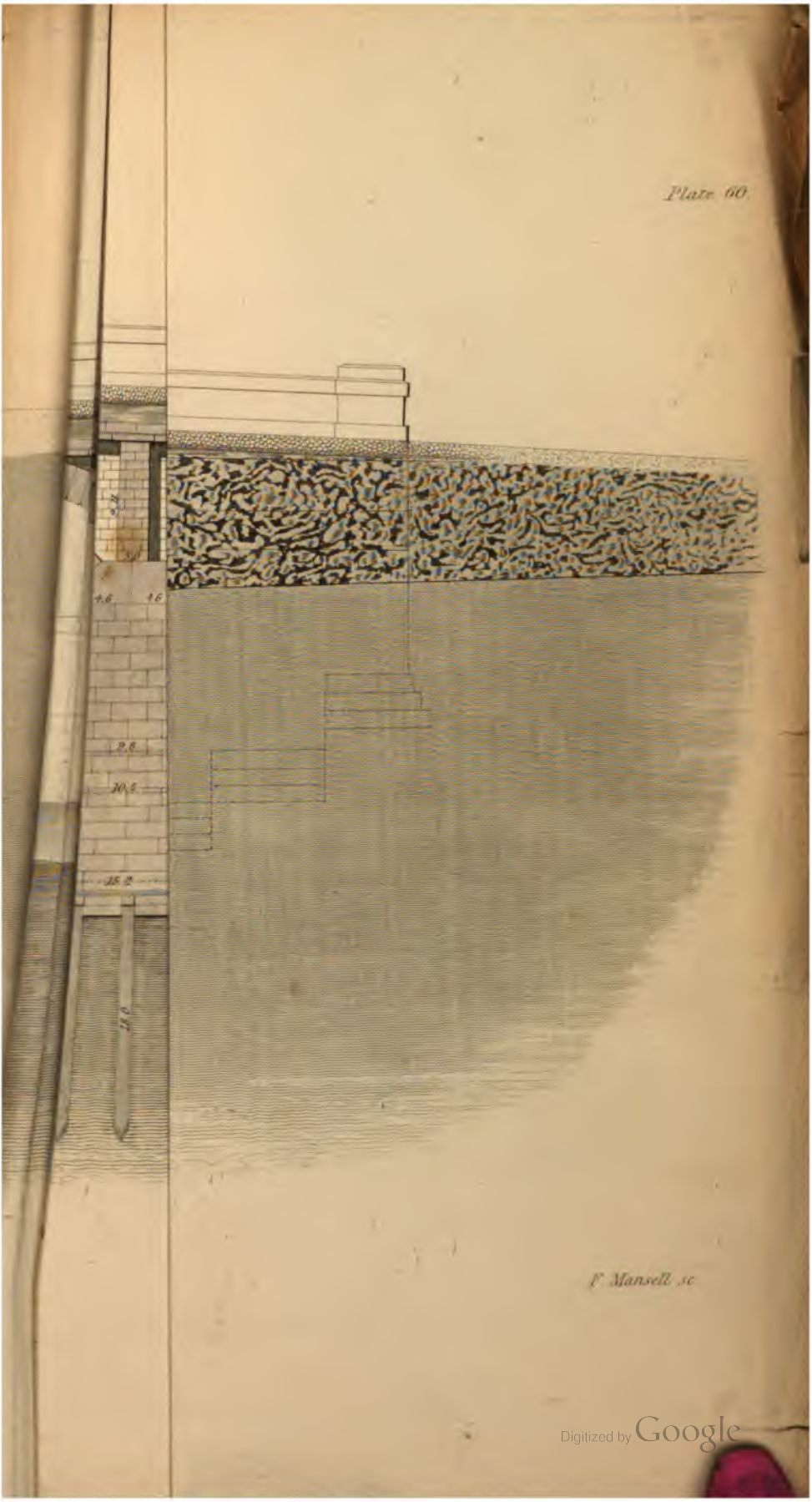

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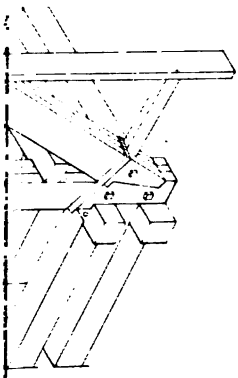

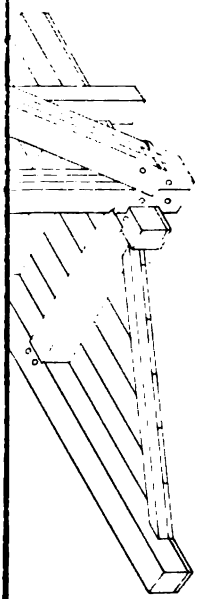

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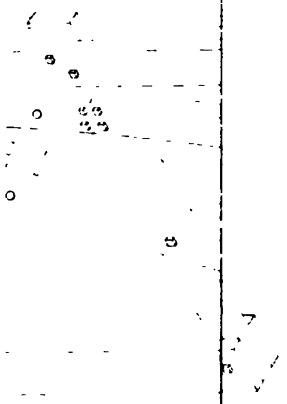
Plate 62



F. Mansell sc.

Holborn. November 1842

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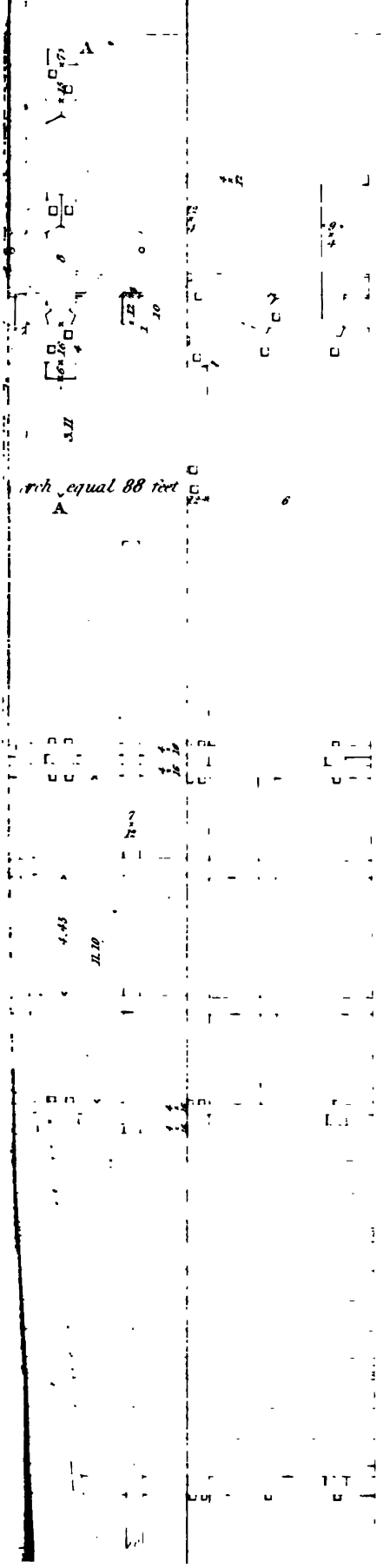

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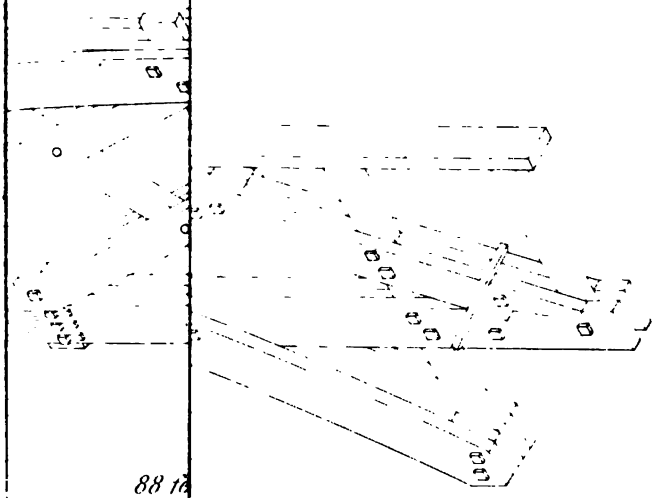
Plate 63a



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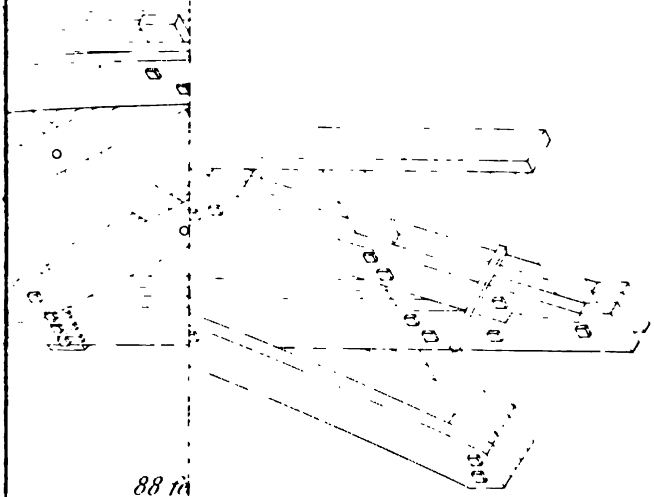

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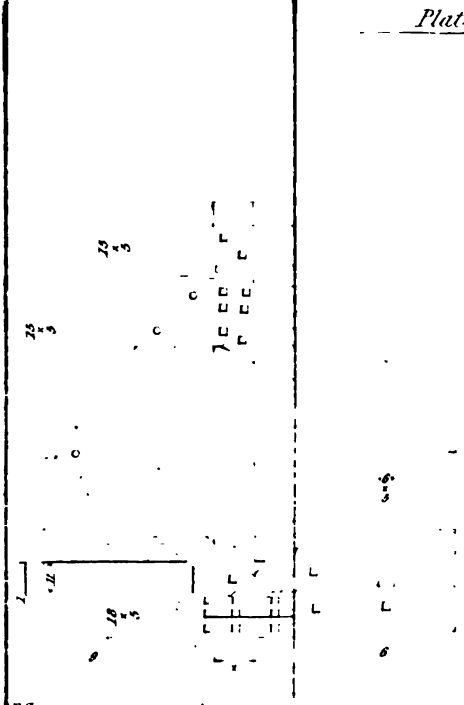
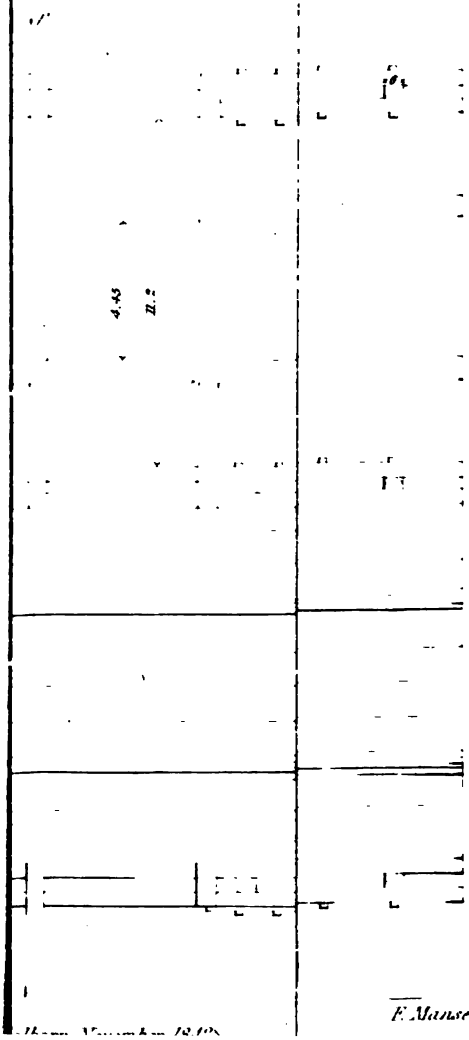


Fig. 1



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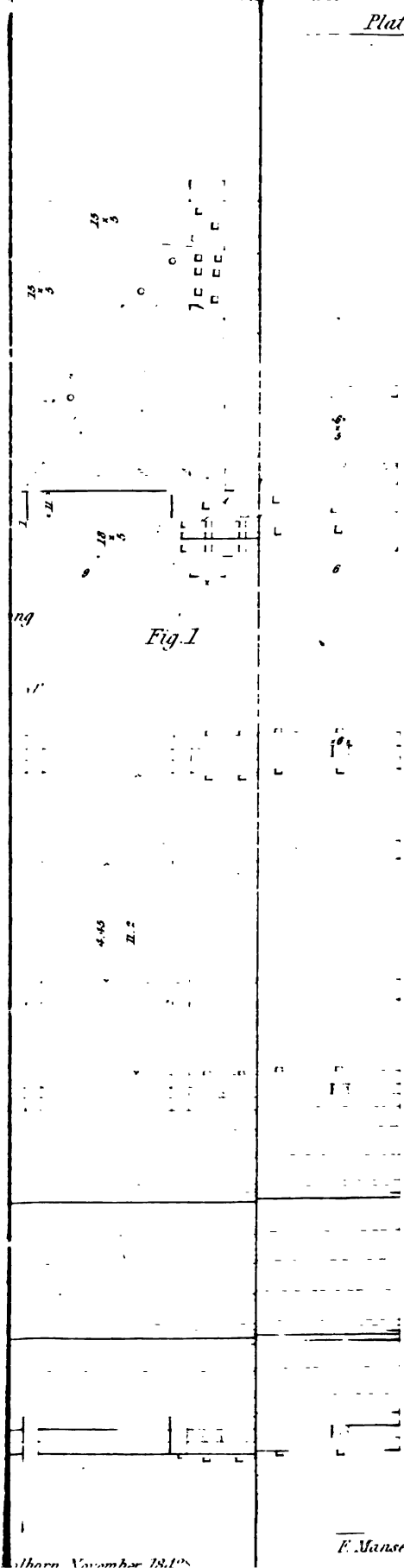

Fig. I

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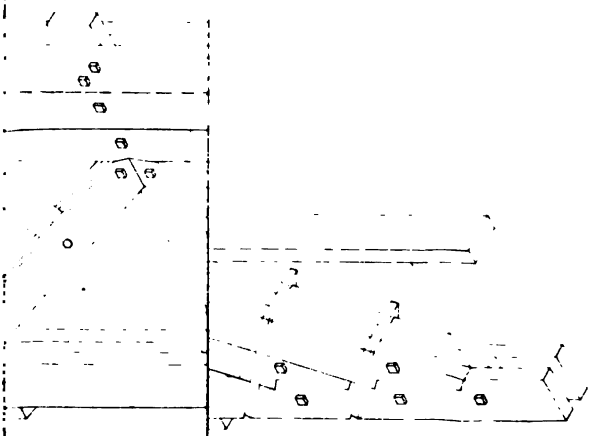
Plate 64a

Span of 82 fe

Scale 6 feet 1 in



ished by John Weale.

F. Mansell sc.

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